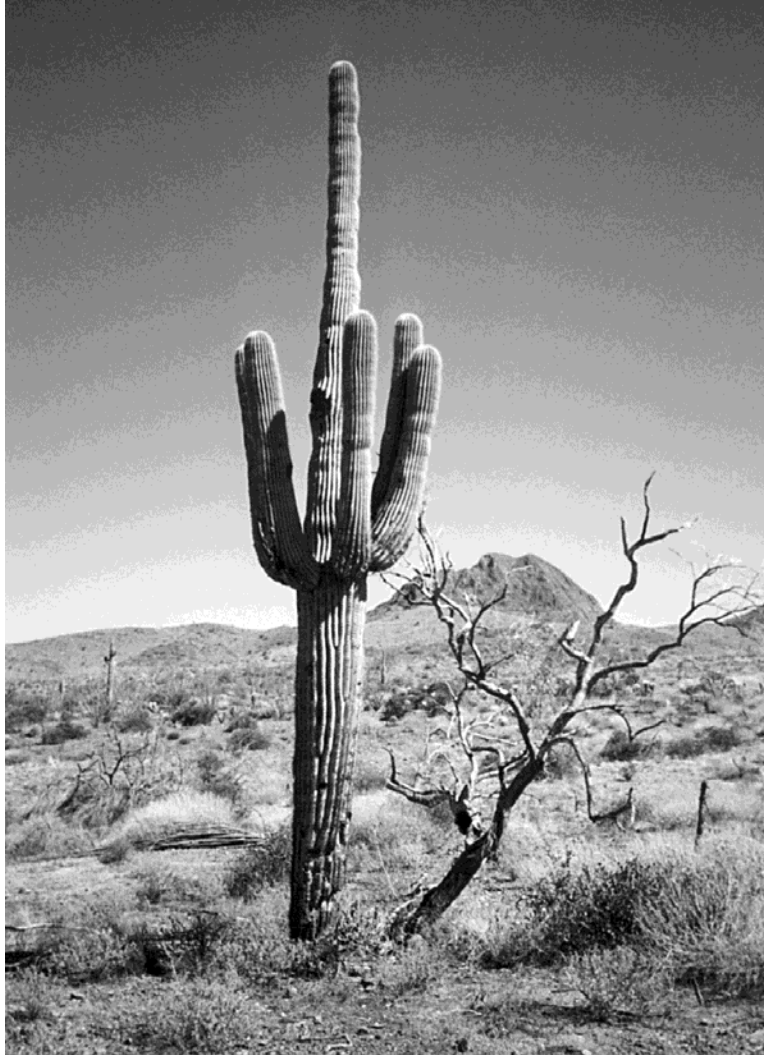


CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2001-2011

- 1A. PREGNANCIES BY PREGNANCY OUTCOME,
ETHNICITY, AND AGE GROUP**
- 1B. NATALITY: MATERNAL CHARACTERISTICS
AND NEWBORN'S HEALTH**
- 1C. FETAL, PERINATAL, AND MATERNAL DEATHS**
- 1D. INDUCED TERMINATIONS OF PREGNANCY**



1A.

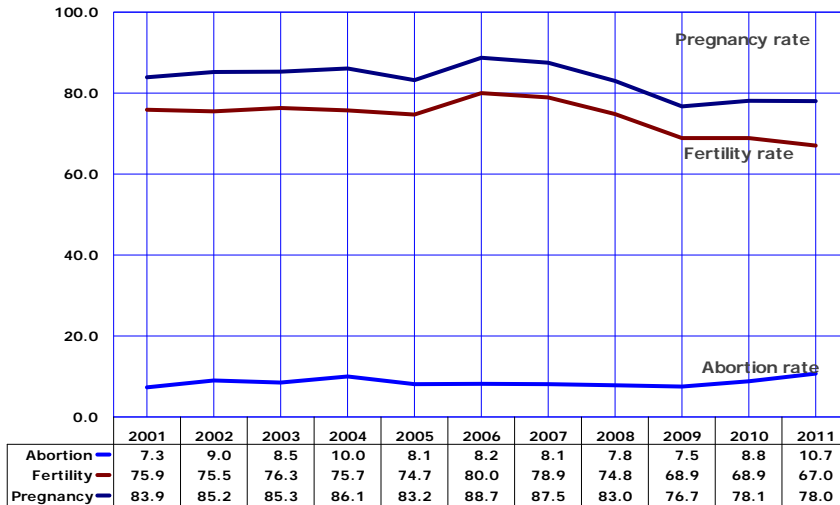
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP

The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report, pregnancies are measured as the sum of three components: **live births** (see Section 1B), **spontaneous terminations of pregnancy** (fetal deaths or stillbirths; Section 1C) and **induced terminations of pregnancy** (or abortions; Section 1D).

There were 99,266 pregnancies in Arizona in 2011 compared to 98,548 in 2010 and 113,756 in 2007. Among the three pregnancy outcomes, the number of resident live births decreased by 17.0 percent from 102,687 in 2007 to 85,190 in 2011 (**Table 1A-1**). The number of reported abortions increased by 23.0 percent from 11,059 in 2010 to 13,606 in 2011. The number of reportable spontaneous fetal losses increased by 6.0 percent from 443 in 2010 to 470 in 2011.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

Figure 1A-1
Pregnancy Rates by Outcome and Year among Females of all Ages, Arizona, 2001-2011



Rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate slightly increased from 76.7 pregnancies per 1,000 females 15-44 years old in 2009 to 78.0/1,000 in 2011 (Figure 1A-1, Table 1A-1).

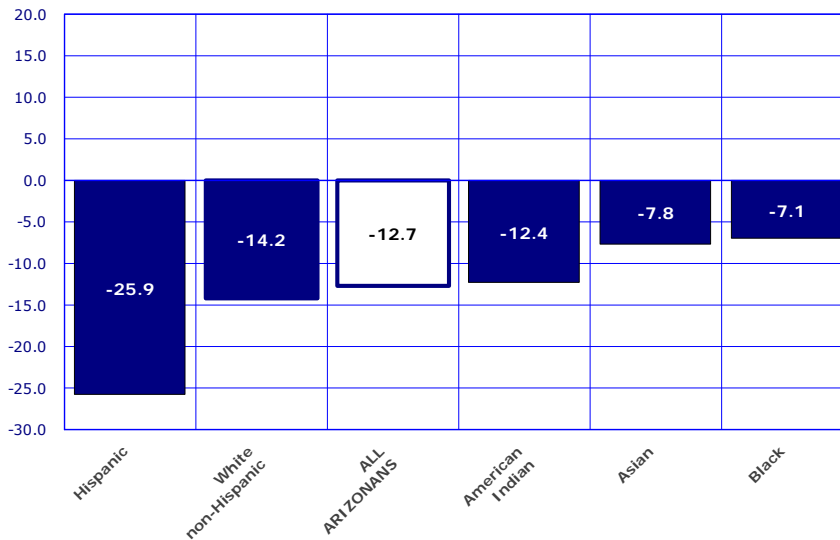
The fertility rate (the number of births per 1,000 women of childbearing age) changed from 2010 at 68.9/1,000 to 67.0/1,000 in 2011.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased by 42.7 percent from 7.5 abortions per 1,000 women aged 15-44 years in 2009 to 10.7/1,000 in 2011. The increase in abortion rate was attributed to enhanced surveillance as well as changes in law requiring mandatory reporting.

It is important to note that the number of females aged 15-44 years was lower in 2011 (1,271,867), compared to the 2009 estimate of 1,344,836.

Note: All rates are per 1,000 females 15-44 years old. The fertility rate is the number of births per 1,000 females aged 15-44 years.

Figure 1A-2
Percent Change from 2007 to 2011 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona



The changes in the number of pregnancies from 2007 to 2011 varied by woman's race/ethnicity.

Hispanic or Latino women experienced an unprecedented decrease of 25.9 percent from 49,717 in 2007 to 36,853 in 2011 (Figure 1A-2, Table 1A-1). White non-Hispanics experienced the second largest decrease.

From 2007 to 2011, White non-Hispanic women experienced a 14.2 percent decrease, American Indian women experienced a 12.4 percent decrease, Asian women experienced a 7.8 percent decrease, and Black women experienced a 7.1 percent decrease in number of pregnancies, respectively.

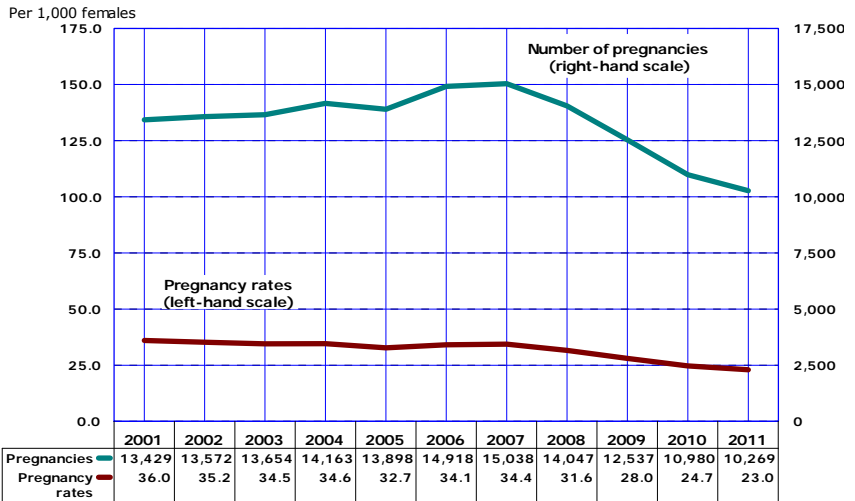
Pregnancy rate = the number of pregnancies per 1,000 females aged 15-44 years in specified race/ethnicity group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

Figure 1A-3
Trends in the Number of Pregnancies and Pregnancy Rates among Females 19 or Younger, Arizona, 2001-2011

There is a difference between pregnancy rates and the absolute number of pregnancies. The teen pregnancy rate measures the proportion of teenagers becoming pregnant in a given year; in other words, the relative "risk for pregnancy" in a population "at risk". The number of pregnancies is also determined by the size of the population "at risk": or in this case, by the number of teenage females in the population.

The number of teen pregnancies decreased by 31.7 percent from 15,038 in 2007 to 10,269 in 2011 (Figure 1A-3). The teen pregnancy rate declined even more, by 33.1 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 23.0/1,000 in 2011, the lowest rate since at least 1980.

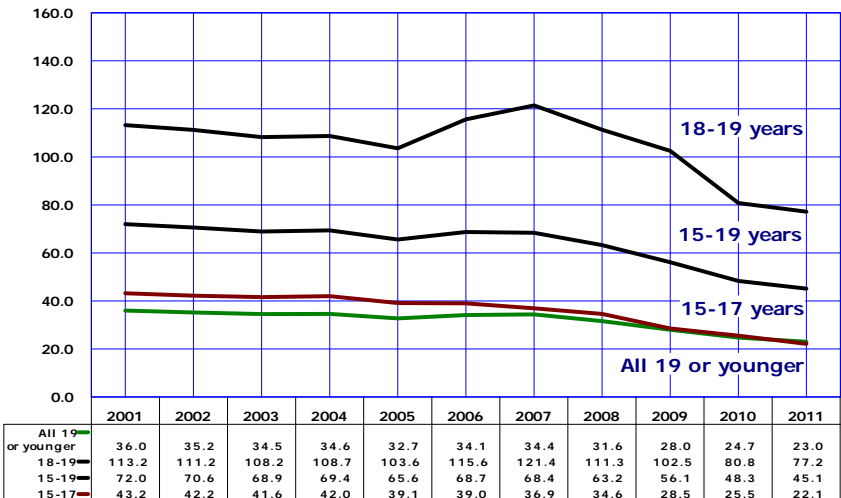


Pregnancy rate = the number of pregnancies per 1,000 females aged 19 years or younger.

Figure 1A-4
Pregnancy Rates by Age Group and Year among Females 19 or Younger, Arizona, 2001-2011

The pregnancy rate for Arizona teenagers 15-19 years old in 2011 was 45.1 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 34.1 percent lower than in 2007. The pregnancy rate for younger teenagers 15-17 years old declined by 40.1 percent (Table 1A-3) from 36.9/1,000 in 2007 to 22.1/1,000 in 2011. The pregnancy rate for older teenagers 18-19 years old declined by 36.4 percent from 121.4/1,000 in 2007 to 77.2/1,000 in 2011 (Table 1A-4).

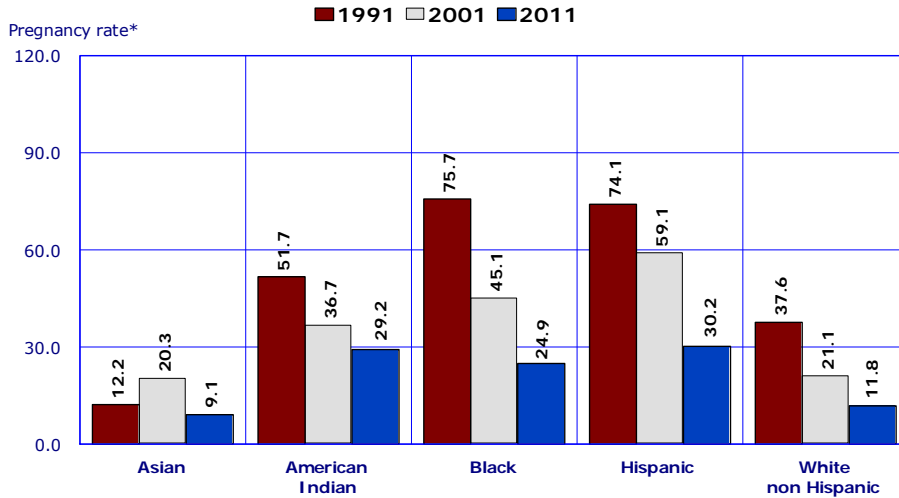
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3 and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.



Note: All rates are per 1,000 females in specified age group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

Figure 1A-5
Comparison of Pregnancy Rates by Race/Ethnicity and Year among Females 19 or Younger in Arizona, 1991, 2001, and 2011



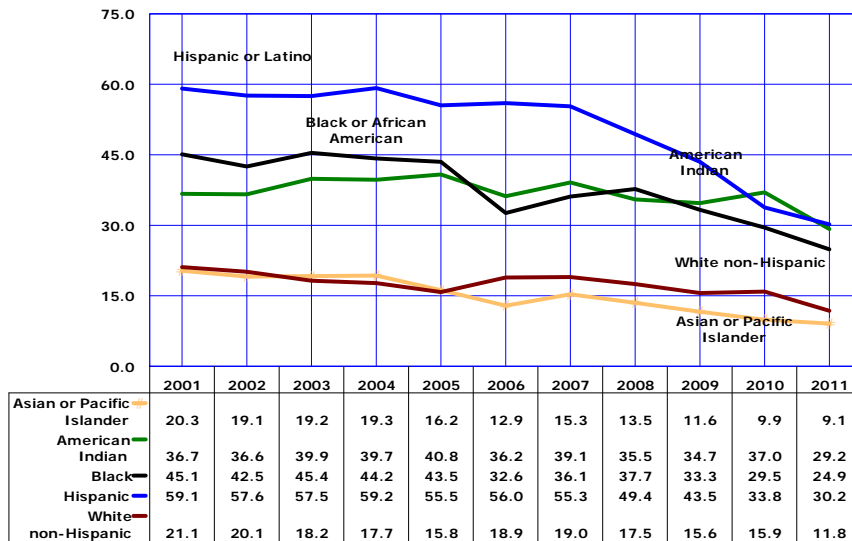
Number of pregnancies per 1,000 females 10-19 years old in specified group.

Teen pregnancy rates differ sharply by race/ethnicity.

Between 2001 and 2011, pregnancy rates among females aged 19 and younger declined for all race/ethnicity groups (Figure 1A-5). The steepest decline in pregnancy rates was recorded for Hispanics. The teen pregnancy rate for this group decreased by 48.9 percent from 59.1 in 2001 to 30.2 in 2011. American Indian females also experienced a substantial decline by 48.5 percent, from a rate of 56.7/1,000 in 2001 to 29.2/1,000 in 2011.

The changes in annual teen pregnancy rates from 2001 to 2011 are shown in detail below.

Figure 1A-6
Pregnancy Rates by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 2001-2011



Note: All rates are per 1,000 females in specified age group.

The teen pregnancy rates for all race and ethnic groups were lower in 2011 than in 2001 (Figure 1A-6).

The impact on decline in pregnancy rates is partly attributable to large differences in number of abortions (i.e., a vital component in calculation of pregnancy rates).

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

Figure 1A-7
Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2011

In 2011, Hispanic females accounted for approximately 39.2 percent of all females 10-19 years old in Arizona. As in the past, they made a significantly higher proportional contribution to teen pregnancies (51.6 percent) and live births (54.9 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up a larger proportion of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (23.3 percent) and live births (24.8 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

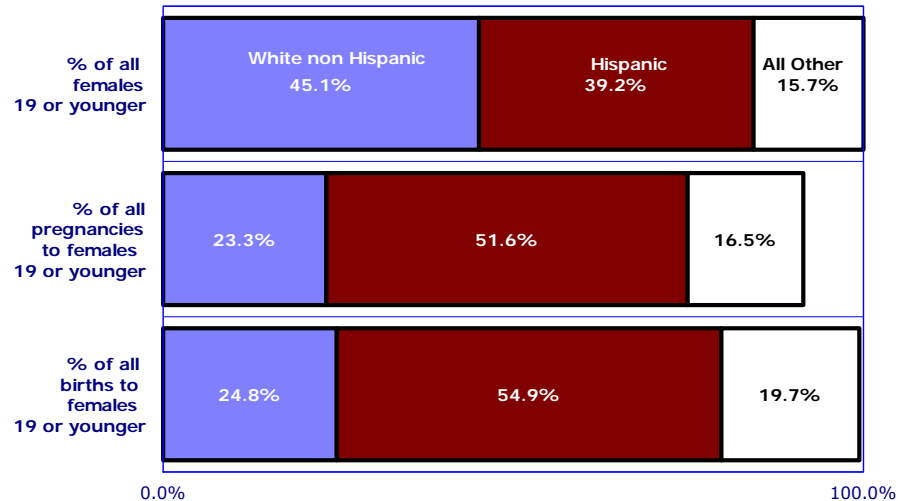
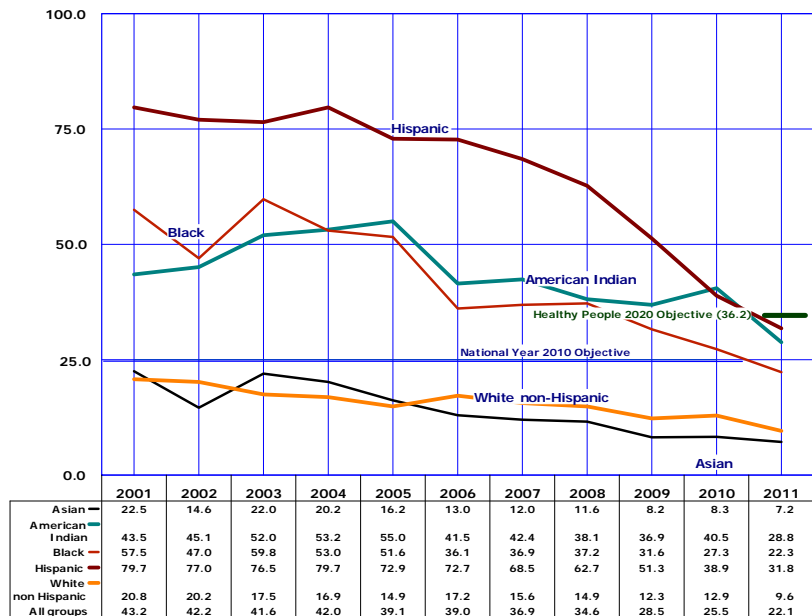


Figure 1A-8
Pregnancy Rates by Race/Ethnicity and Year among Females 15-17 Years: 2001-2011 and the "Healthy Arizona 2020" Objective

In 2011, the pregnancy rate of 22.1 pregnancies per 1,000 adolescent girls 15-17 years old in Arizona was 39.0 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8**, **Table 1A-3**). For all racial/ethnic groups in Arizona, the pregnancy rates of females age 15-17 years were below the Healthy People 2020 objective. The 2011 pregnancy rate among Asians ages 15-17 was 5.0 times lower, and among White non-Hispanics 3.8 times lower than the objective. While lower than the objective, the pregnancy rates of Hispanics, American Indians, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.



Note: All rates are per 1,000 females 15-17 years old in specified race/ethnicity group.

**TABLE 1A-1
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES², ARIZONA, 2001-2011**

Race/ethnicity Pregnancy outcome	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2011 Rates
WHITE³ NON-HISPANIC, total:	43,116	44,038	43,928	45,236	44,296	48,329	47,633	46,860	44,737	44,174	40,868	62.8
Births	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294	58.9
Abortions	3,917	4,909	4,887	5,726	4,431	5,106	5,202	4,737	4,759	5,241	2,385	3.7
Fetal deaths	265	310	199	239	208	210	215	198	197	156	189	0.3
HISPANIC OR LATINO, total:	38,118	39,989	42,788	45,534	45,500	48,266	49,717	45,997	41,869	37,953	36,853	85.8
Births	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398	75.4
Abortions	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303	3,422	4,274	9.9
Fetal deaths	278	334	246	227	232	244	267	234	204	198	181	0.4
BLACK OR AFRICAN AMERICAN, total:	3,218	3,364	3,558	3,972	4,068	4,484	4,884	5,089	5,166	4,843	4,538	77.7
Births	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366	74.8
Abortions	450	556	495	723	585	581	675	744	736	476	145	2.5
Fetal deaths	32	55	41	33	33	39	44	44	52	39	27	0.5
AMERICAN INDIAN OR ALASKA NATIVE, total:	5,622	5,883	6,279	6,497	6,691	6,744	6,757	6,706	6,516	6,063	5,921	71.6
Births	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830	70.5
Abortions	220	285	357	341	353	342	310	297	300	218	48	0.6
Fetal deaths	62	53	41	36	45	38	39	47	46	30	43	0.5
ASIAN OR OTHER PACIFIC ISLANDER, total:	2,326	2,568	2,804	3,075	3,195	3,537	3,883	3,856	3,797	3,564	3,579	70.3
Births	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505	68.9
Abortions	207	273	272	444	379	391	454	412	390	254	47	0.9
Fetal deaths	15	14	8	17	11	10	17	19	11	17	27	0.5
ALL RACE/ETHNIC GROUPS³, total:	94,142	98,548	101,476	106,252	106,776	113,091	113,756	110,155	103,172	98,548	99,266	78.0
Births	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190	67.0
Abortions	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045	11,059	13,606	10.7
Fetal deaths	703	772	539	*505	532	543	583	544	511	443	470	0.4
Pregnancy rate, total:	83.9	85.2	85.3	86.1	83.2	88.7	87.5	83.0	76.7	78.1	78.0	
Fertility rate⁴	75.9	75.5	76.3	75.7	74.7	80.0	78.9	74.8	68.9	68.9	67.0	
Abortion rate	7.3	9.0	8.5	10.0	8.1	8.2	8.1	7.8	7.5	8.8	10.7	

¹The sum of recorded live births, abortions, and fetal deaths. Beginning in 2003, fetal deaths are spontaneous terminations of pregnancy at 20 or more weeks of gestation (or, if the gestational period is unknown, these are the deaths of fetuses weighing 350 grams or more). *The total number of fetal deaths for 2004 was revised from 555 to 505. For the revised 2004 counts of fetal deaths by race/ethnicity see Table 1C-4.

²All rates per 1,000 females of childbearing age (15-44 years).

³Includes other and unspecified ethnicity.

⁴Number of births per 1,000 females of childbearing age.

⁵A coding error in the abortion reporting document incorrectly specified a portion of those who self-identified as multiple race with all possible racial choices.

**TABLE 1A-2
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES AGED 17 AND YOUNGER
WITH RATES², ARIZONA, 2001-2011**

Race/ethnicity Pregnancy outcome	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2011 Rates
WHITE³ NON-HISPANIC, total:	1,250	1,245	1,131	1,129	1,028	1,204	1,165	1,074	894	770	600	3.8
Births	960	847	805	764	728	871	805	784	669	553	507	3.2
Abortions	278	387	322	360	293	324	353	287	218	214	90	0.6
HISPANIC OR LATINO, total:	2,930	2,926	2,993	3,198	3,043	3,281	3,286	3,057	2,496	2,106	1,731	12.3
Births	2,684	2,654	2,746	2,916	2,858	3,046	3,007	2,835	2,340	1,927	1,528	10.8
Abortions	221	250	224	267	172	217	254	207	144	167	196	1.4
BLACK OR AFRICAN AMERICAN, total:	240	207	256	241	247	255	268	266	221	189	167	9.1
Births	206	164	207	192	207	194	207	215	187	161	162	8.8
Abortions	31	34	46	47	37	57	55	48	31	25	4	0.2
AMERICAN INDIAN OR ALASKA NATIVE, total:	384	409	501	495	530	477	504	452	436	361	312	11.6
Births	365	392	471	473	499	449	471	430	411	345	307	11.4
Abortions	10	15	28	18	25	25	30	19	22	15	2	0.1
ASIAN OR OTHER PACIFIC ISLANDER, total:	44	30	47	46	39	43	43	41	30	29	29	2.9
Births	29	20	39	26	29	29	31	27	20	24	28	2.8
Abortions	15	10	8	20	10	14	12	14	9	5	1	0.1
ALL RACE/ETHNIC GROUPS⁴, total:	4,914	4,951	5,027	5,188	5,029	5,347	5,300	4,970	4,101	3,513	3,089	8.7
Births	4,278	4,158	4,321	4,415	4,364	4,620	4,541	4,312	3,633	3,015	2,548	7.2
Abortions	586	749	674	747	636	693	718	634	442	479	527	1.5
Pregnancy rate, total:	16.5	16.1	15.9	15.9	14.8	15.1	14.8	13.7	11.2	10.0	8.7	
Fertility rate⁵	14.3	13.5	13.7	13.5	12.9	13.0	12.7	11.9	9.9	8.6	7.2	
Abortion rate	2.0	2.4	2.1	2.3	1.9	2.0	2.0	1.7	1.2	1.4	1.5	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 10-17 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 10-17 years old.

**TABLE 1A-3
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD
WITH RATES², ARIZONA, 2001-2011**

Race/ethnicity Pregnancy outcome	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2011 Rates
WHITE³ NON-HISPANIC, total:	1,197	1,202	1,090	1,093	996	1,157	1,067	1,038	863	742	577	9.6
Births	926	824	782	747	711	852	779	769	649	541	494	8.2
Abortions	262	367	304	341	278	296	282	266	207	198	80	1.3
HISPANIC OR LATINO, total:	2,771	2,761	2,819	3,040	2,885	3,131	3,126	2,911	2,401	2,021	1,653	31.8
Births	2,552	2,507	2,600	2,779	2,721	2,923	2,892	2,724	2,253	1,859	1,467	28.3
Abortions	199	235	197	247	151	193	210	173	136	151	179	3.4
BLACK OR AFRICAN AMERICAN, total:	224	189	247	228	234	239	242	248	212	178	157	22.3
Births	193	152	204	180	199	187	195	203	181	151	152	21.6
Abortions	28	30	40	46	32	48	42	43	28	24	4	0.6
AMERICAN INDIAN OR ALASKA NATIVE, total:	363	388	461	473	505	457	470	428	419	345	298	28.8
Births	348	374	434	452	478	430	445	408	394	331	293	28.3
Abortions	7	12	25	17	21	24	22	17	22	13	2	0.2
ASIAN OR OTHER PACIFIC ISLANDER, total:	44	29	45	44	38	39	39	38	27	28	26	7.2
Births	29	19	38	25	28	28	31	26	18	23	26	7.2
Abortions	15	10	7	19	10	11	8	12	1	5	0	0.0
ALL RACE/ETHNIC GROUPS⁴, total:	4,661	4,696	4,755	4,955	4,790	5,105	4,975	4,740	3,945	3,363	2,939	22.1
Births	4,080	3,952	4,110	4,227	4,179	4,450	4,361	4,151	3,501	2,910	2,447	18.4
Abortions	540	705	614	703	582	624	576	567	418	435	478	3.6
Pregnancy rate, total:	43.2	42.2	41.6	42.0	39.1	39.0	36.9	34.6	28.5	25.5	22.1	
Fertility rate⁵	37.8	35.5	35.9	35.8	34.1	34.0	32.3	30.3	25.3	22.1	18.4	
Abortion rate	5.0	6.3	5.4	6.0	4.8	4.8	4.3	4.1	3.0	3.3	3.6	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 15-17 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 15-17 years old.

**TABLE 1A-4
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 18-19 YEARS OLD
WITH RATES², ARIZONA, 2001-2011**

Race/ethnicity Pregnancy outcome	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2011 Rates
WHITE³ NON-HISPANIC, total:	2,925	2,857	2,772	2,795	2,603	2,944	2,936	2,778	2,560	2,316	1,792	40.8
Births	2,436	2,217	2,165	2,042	2,016	2,338	2,295	2,209	2,046	1,833	1,582	36.0
Abortions	468	623	592	735	574	593	629	554	502	480	199	4.5
HISPANIC OR LATINO, total:	4,309	4,361	4,483	4,767	4,705	5,115	5,259	4,707	4,400	3,812	3,566	104.0
Births	3,964	3,931	4,046	4,222	4,330	4,692	4,775	4,333	4,001	3,421	3,103	90.5
Abortions	313	400	406	517	350	392	456	354	381	365	442	12.9
BLACK OR AFRICAN AMERICAN, total:	382	398	408	430	441	476	498	546	501	446	413	84.0
Births	339	304	342	348	362	407	414	441	416	401	399	81.2
Abortions	40	84	61	78	77	67	81	95	79	42	13	2.6
AMERICAN INDIAN OR ALASKA NATIVE, total:	669	673	714	720	759	800	849	794	793	664	685	94.2
Births	648	647	670	669	705	767	814	755	759	643	680	93.5
Abortions	19	25	40	47	51	30	33	35	30	21	3	0.4
ASIAN OR OTHER PACIFIC ISLANDER, total:	90	100	87	102	93	89	124	108	99	88	87	32.7
Births	75	76	68	66	67	63	72	86	68	79	83	31.2
Abortions	15	24	19	36	25	26	51	22	31	9	4	1.5
ALL RACE/ETHNIC GROUPS⁴, total:	8,515	8,621	8,627	8,975	8,869	9,571	9,738	9,077	8,436	7,467	7,180	77.2
Births	7,512	7,316	7,379	7,448	7,569	8,296	8,431	7,849	7,319	6,401	5,887	63.3
Abortions	942	1,246	1,193	1,473	1,256	1,226	1,261	1,179	1,077	1,033	1,258	13.5
Pregnancy rate, total:	113.2	111.2	108.2	108.7	103.6	115.6	121.4	111.3	102.5	80.8	77.2	
Fertility rate⁵	99.9	94.3	92.5	90.2	88.4	100.2	105.1	96.3	89.0	69.2	63.3	
Abortion rate	12.5	16.1	15.0	17.8	14.7	14.8	15.7	14.5	13.1	11.2	13.5	

¹Fetal deaths are included in the total count of pregnancies.

²All rates per 1,000 females 18-19 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 18-19 years old.

**TABLE 1A-5
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 19 AND YOUNGER,
WITH RATES², ARIZONA, 2001-2011**

Race/ethnicity Pregnancy outcome	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2011 Rates
WHITE³ NON-HISPANIC, total:	4,175	4,102	3,903	3,924	3,631	4,148	4,101	3,852	3,454	3,086	2,392	11.8
Births	3,396	3,064	2,970	2,806	2,744	3,209	3,100	2,993	2,715	2,386	2,089	10.3
Abortions	746	1,010	914	1,095	867	917	982	841	720	694	289	1.4
HISPANIC OR LATINO, total:	7,239	7,287	7,476	7,965	7,748	8,396	8,545	7,764	6,896	5,918	5,297	30.2
Births	6,648	6,585	6,792	7,138	7,188	7,738	7,782	7,168	6,341	5,348	4,631	26.4
Abortions	534	650	630	784	522	609	710	561	525	532	638	3.6
BLACK OR AFRICAN AMERICAN, total:	622	605	664	671	688	731	766	812	722	635	580	24.9
Births	545	468	549	540	569	601	621	656	603	562	561	24.1
Abortions	71	118	107	125	114	124	136	143	110	67	17	0.7
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,053	1,082	1,215	1,215	1,289	1,277	1,353	1,246	1,229	1,025	997	29.2
Births	1,013	1,039	1,141	1,142	1,204	1,216	1,285	1,185	1,170	988	987	28.9
Abortions	29	40	68	65	76	55	63	54	52	36	5	0.1
ASIAN OR OTHER PACIFIC ISLANDER, total:	134	130	134	148	132	132	167	149	129	117	116	9.1
Births	104	96	107	92	96	92	103	113	88	103	111	8.7
Abortions	30	34	27	56	35	40	63	36	40	14	5	0.4
ALL RACE/ETHNIC GROUPS⁴, total:	13,429	13,572	13,654	14,163	13,898	14,918	15,038	14,047	12,537	10,980	10,269	23.0
Births	11,790	11,474	11,700	11,863	11,933	12,916	12,972	12,161	10,952	9,416	8,435	18.9
Abortions	1,528	1,995	1,867	2,220	1,892	1,919	1,979	1,813	1,519	1,512	1,785	4.0
Pregnancy rate, total:	36.0	35.2	34.5	34.6	32.7	34.1	34.4	31.6	28.0	24.7	23.0	
Fertility rate⁵	31.6	29.8	29.5	29.0	28.1	29.6	29.7	27.4	24.4	21.2	18.9	
Abortion rate	4.1	5.2	4.7	5.4	4.5	4.4	4.5	4.1	3.4	3.4	4.0	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 19 or younger.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 19 or younger.

**TABLE 1A-6
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2011
PREGNANCIES BY OUTCOME:**

	All ages	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All groups											
Total pregnancies	99,266	150	2,939	7,180	26,256	27,790	21,635	10,517	2,624	172	3
Births	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3
Abortions	13,606	49	478	1,258	4,386	3,428	2,153	1,308	512	34	0
Fetal deaths	470	0	14	35	117	111	114	56	22	1	0
White non Hispanic											
Total pregnancies	40,868	23	577	1,792	9,040	12,710	10,639	4,816	1,193	78	0
Births	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0
Abortions	2,385	10	80	199	758	621	362	222	124	9	0
Fetal deaths	189	0	3	11	48	43	52	22	10	0	0
Hispanic or Latino											
Total pregnancies	36,853	78	1,653	3,566	11,187	9,500	6,707	3,351	772	39	0
Births	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0
Abortions	4,274	17	179	442	1,454	1,044	654	375	101	8	0
Fetal deaths	181	0	7	21	47	43	33	20	9	1	0
Black or African American											
Total pregnancies	4,538	10	157	413	1,397	1,188	850	426	91	6	0
Births	4,366	10	152	399	1,334	1,149	818	410	88	6	0
Abortions	145	0	4	13	57	30	25	13	3	0	0
Fetal deaths	27	0	1	1	6	9	7	3	0	0	0
American Indian or Alaska Native											
Total pregnancies	5,921	14	298	685	1,949	1,487	919	472	93	4	0
Births	5,830	14	293	680	1,924	1,464	899	461	91	4	0
Abortions	48	0	2	3	13	12	11	6	1	0	0
Fetal deaths	43	0	3	2	12	11	9	5	1	0	0
Asian or other Pacific Islander											
Total pregnancies	3,579	3	26	87	418	992	1,248	654	142	9	0
Births	3,505	2	26	83	402	981	1,225	644	133	9	0
Abortions	47	1	0	4	12	8	11	4	7	0	0
Fetal deaths	27	0	0	0	4	3	12	6	2	0	0
Unspecified other/Multiple race or unknown											
Total pregnancies	7,507	22	228	637	2,265	1,913	1,272	798	333	36	3
Births	797	1	15	40	173	198	181	110	57	19	3
Abortions	6,707	21	213	597	2,092	1,713	1,090	688	276	17	0
Fetal deaths	3	0	0	0	0	2	1	0	0	0	0

¹The sum of recorded live births, spontaneous fetal losses and induced terminations of pregnancy (or abortions).

**TABLE 1A-7
PREGNANCY RATES¹ AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2011**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Induced terminations of pregnancy (or abortions)	Spontaneous fetal losses	Number	Rate
10	45,415	0	1	0	1	0.0
11	44,502	0	0	0	0	0.0
12	43,706	1	6	0	7	0.2
13	43,979	7	11	0	18	0.4
14	43,696	93	31	0	124	2.8
10-14	221,298	101	49	0	150	0.7
15	43,808	249	73	1	323	7.4
16	44,542	792	159	3	954	21.4
17	44,464	1,406	246	10	1,662	37.4
15-17	132,814	2,447	478	14	2,939	22.1
18	46,336	2,399	527	12	2,938	63.4
19	46,707	3,488	731	23	4,242	90.8
18-19	93,043	5,887	1,258	35	7,180	77.2
Total 10-19	447,155	8,435	1,785	49	10,269	23.0

¹Rates per 1,000 female population in specific group.



1B.

NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

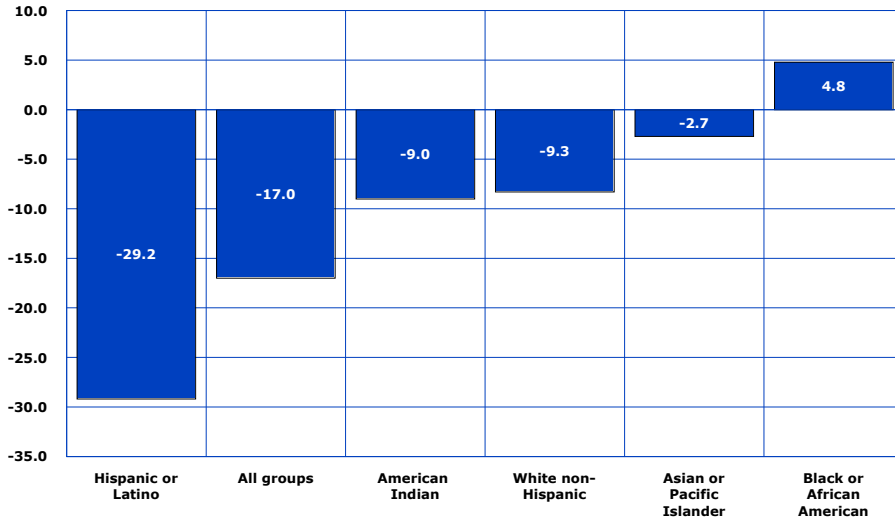
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since then, births have declined from 87,053 in 2010 to 85,190 in 2011.

There were striking differences in how the number of births changed from 2007 to 2011 by mother's race/ethnicity. The number of births rose by 4.8 percent for Black or African American mothers. Compared to 2007, the number of births for all race/ethnic groups combined was 17.0 percent lower in 2011. Hispanic or Latino women experienced an unprecedented decrease of 29.2 percent (**Figure 1B-1**)

Since the 2008 edition of this report, we have been pointing out that Hispanics, unlike any other race/ethnic group in the State, faced in 2008-2011 not only the economic recession (shared by all), but also additional challenges such as the employer-sanction law (a penalty on employers hiring illegal immigrants), and a widespread practice of e-verify (checking the legal-residence status of those seeking employment). Considering all these factors, there is a reason to believe that there were fewer births among Hispanic or Latinos since 2007, because there were fewer Hispanic or Latino residents of Arizona in 2008-2011 than there were in 2007. In 2009, for the first time since 2003, the number of births among White non-Hispanics (39,781) exceeded the number of Hispanic or Latino births (38,362). In 2011, Hispanics or Latinos accounted for 15.4 percent fewer births than White non-Hispanic (32,398 vs. 38,294).

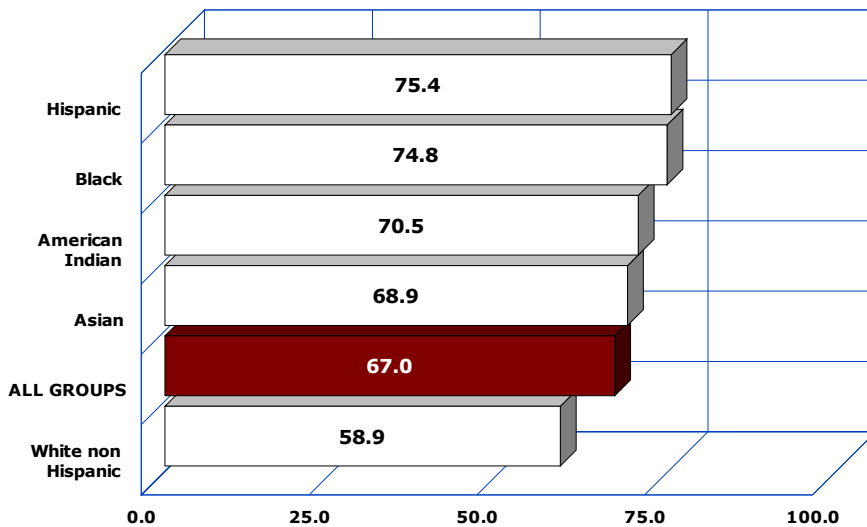
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-1
Percent Change from 2007 to 2011 in the Number of Resident Live Births by
Mother's Race/Ethnicity, Arizona



From 2007 to 2011, the number of resident live births declined by 17.0 percent (**Figure 1B-1**). All race/ethnic groups, except Blacks or African Americans, experienced a decline. The magnitude of the reduction in the number of births was the largest among Hispanics or Latinos (-29.2 percent), and the smallest among Asian or Pacific Islanders (-2.7 percent).

Figure 1B-2
General Fertility Rates by Race/Ethnicity among Females of all Ages,
Arizona, 2011



As we have already noted in Section 1A, the number of females aged 15-44 years was higher in 2011 (1,271,867) than the 2010 estimate of 1,262,557 based on the 2010 census enumeration.

From among 1,271,867 women of childbearing age (15-44 years), 6.6 percent gave birth in 2011, a small decline from 2010. The *general fertility rate* (the number of births per 1,000 women 15-44 years old) also decreased in 2011. Excluding Asians, all racial/ethnic groups had a lower general fertility rate in 2011 than 2010. From 2010 to 2011, the general fertility rate for American Indian females decreased by 17.4 %

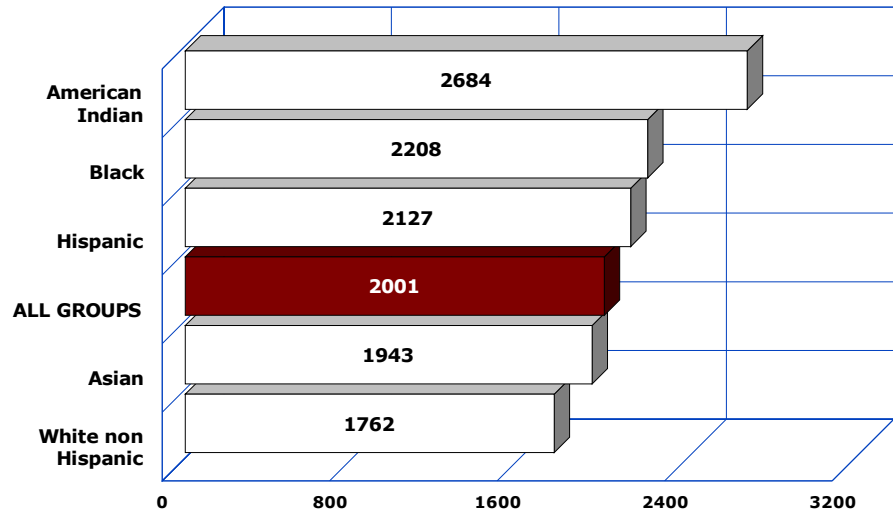
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

Number of births per 1,000 females 15-44 years old in specified group.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

The *total fertility rate* indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2000 to 2008, the Arizona total fertility rates always exceeded the rate of "replacement" (2,110 births per 1,000 women, **Table 1B-1**). The "replacement" rate is considered the value at which a given generation can exactly replace itself. The total fertility was 2,058 births per 1,000 women of childbearing age in 2009 and 2010, and decreased to 2,001 in 2011. The total fertility rates differed substantially by race/ethnicity (**Figure 1B-3**). The 2011 total fertility rate of 2,684 for American Indian women exceeded the generation replacement rate by 27.2 percent. The rate for White non-Hispanic women (1,762) was 16.5 percent lower than the replacement rate.

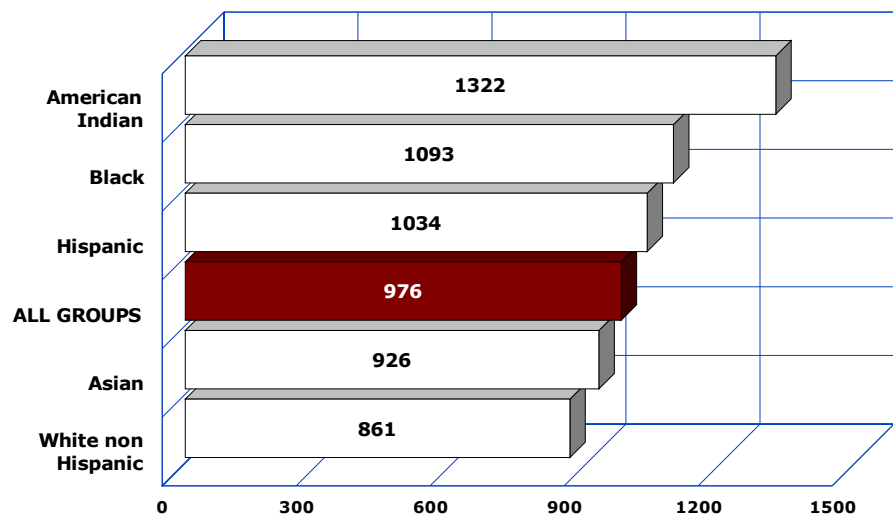
Figure 1B-3
Total Fertility Rates by Race/Ethnicity, Arizona, 2011



The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 2,001 above for example, means that if a hypothetical group of 1,000 women were to have the same birth rates in each age group that were observed in the actual childbearing population in 2011, they would have a total of 2,001 children (or 2.0 children each) by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survived to that age.

Figure 1B-4
Gross Reproduction Rates by Race/Ethnicity, Arizona, 2011

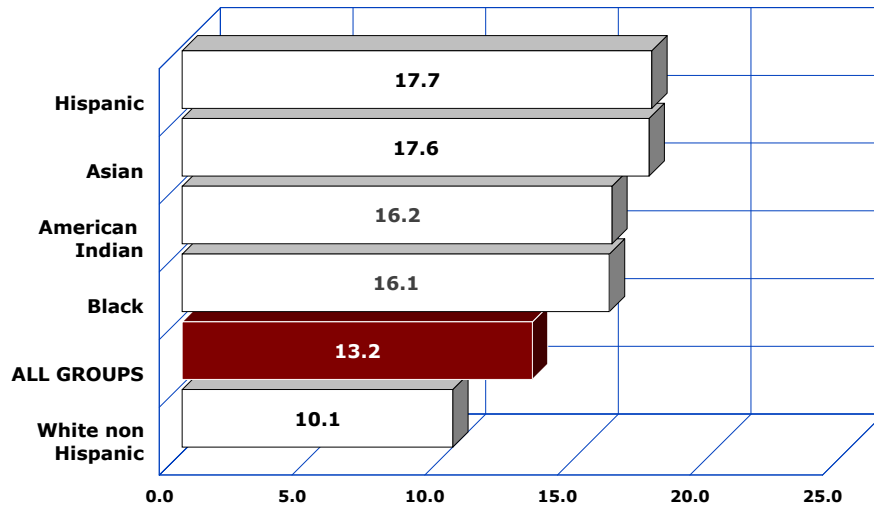
Another measure used to summarize reproduction patterns is the *gross reproduction rate*. It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This measure is similar to the total fertility rate except that it measures only female births, since reproduction is largely dependent on the number of females in a given population. In 2011, the gross reproduction rates in Arizona ranged from 861 for White non-Hispanic women to 1,322 for American Indian women (**Figure 1B-4, Table 1B-1**).



The sum of birth rates by 5-year age groups multiplied by the proportion of births which were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during their childbearing years.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-5
Birth Rates per 1,000 Population by Race/Ethnicity, Arizona, 2011



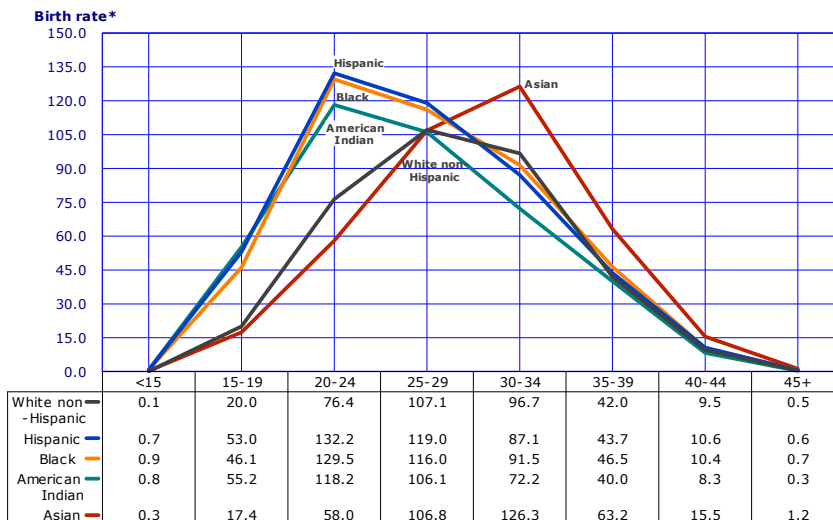
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased to 13.2/1,000 in 2011 (a decline from the rate of 13.6/1,000 seen in 2010).

In 2011 the crude birth rates by mother's race/ethnicity ranged from 10.1 births per 1,000 White non-Hispanics to 17.7 per 1,000 Hispanics (Figure 1B-5). It is important to note that the actual number of births among Hispanics actually declined from 34,333 in 2010 to 32,398 in 2011, although the rate for Hispanic births increased slightly from 17.4/1,000 to 17.7/1,000.

Number of births per 1,000 population in specified group.

Figure 1B-6
Birth Rates by Mother's Age Group and Race/Ethnicity, Arizona, 2011



The age-specific birth rates (the number of births to mothers in a particular age group per 1,000 women in that age group) differed substantially by race/ethnicity (Figure 1B-6).

In 2011, Hispanic and Black women had the highest birth rates for women in age groups up to 29 years. In contrast, the birth rates for women aged 30 years or older were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages than Asian and non-Hispanic White women.

*Number of births per 1,000 females in specified group.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-7
Percent Births to Unmarried Mothers by Age Group, Arizona, 2011

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s, with 44.3 percent in 2011 (**Table 1B-2**). In 2011, 37,780 infants were born to unmarried mothers compared to 33,583 in 2001 (**Table 1B-26**).

A decade ago, the proportion of births among unmarried women aged 20-24 years was 50.9 percent. This proportion has continued to rise from 2001 to 2011. In 2011, six out of ten (63.4 percent) mothers 20-24 years old were unmarried (**Figure 1B-7**).

Births and birth ratios by mother's marital status, age group, and race/ethnicity are given in **Table 1B-23**. County-level information is provided in **Table 5B-14** and **5B-15**.

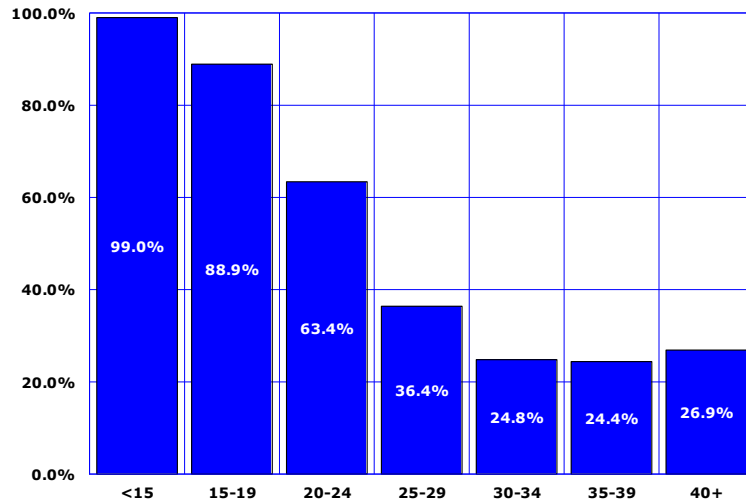
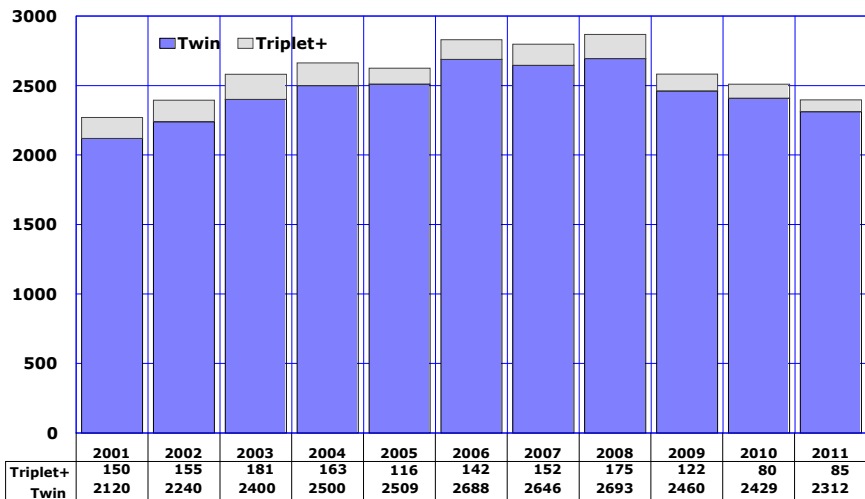


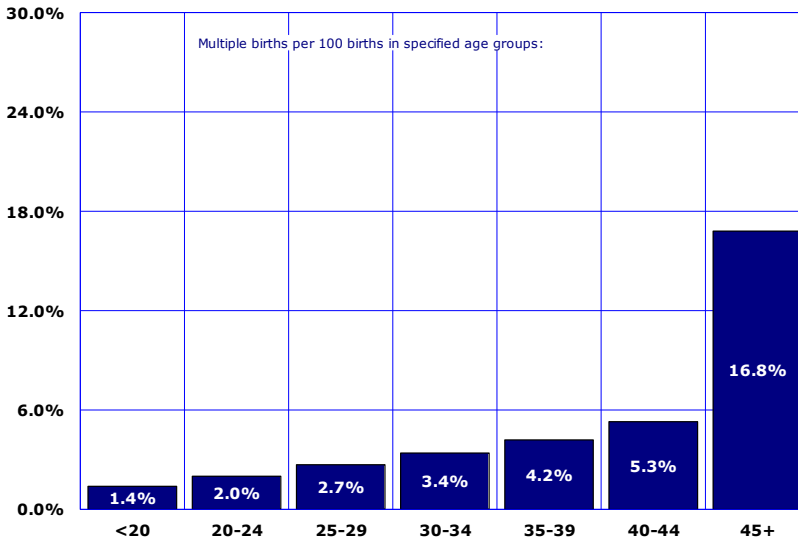
Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2001-2011

The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,397 in 2011 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,312 in 2011 (**Figure 1B-8**). The number of triplet and higher order multiple birth events decreased by 51.4 percent from 175 in 2008 to 85 in 2011.



1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

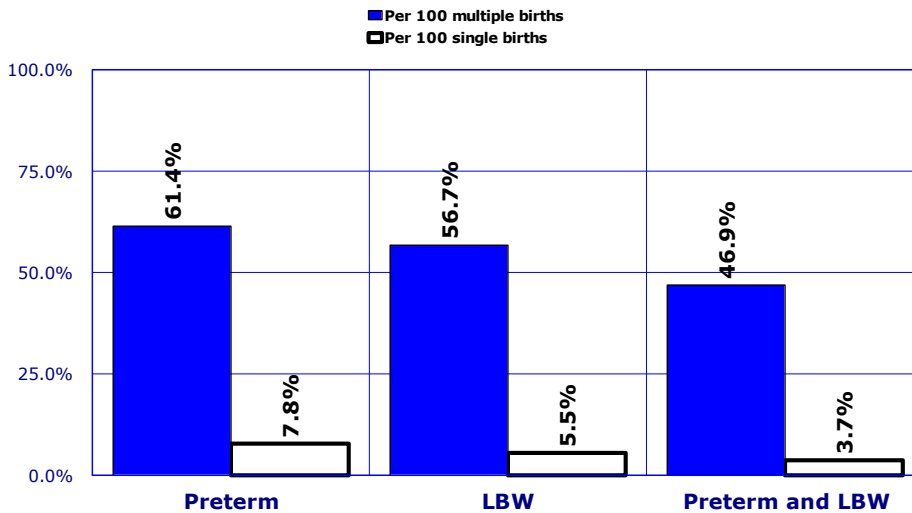
Figure 1B-9
Risk for Multiple Births by Mother's Age Group, Arizona, 2011



The rise in multiple births has been associated with advances in, and greater access to, assisted reproductive technology (ART).

In 2011, the proportion of multiple births increased with maternal age, with a precipitous rise at age 45 years and older. Among women aged 45 years and older, 16.8 percent of all births were twins, triplets, or quadruplets (**Figure 1B-9**). This number decreased by 32.8% from 2010.

Figure 1B-10
Infants Born too Early (Preterm) and Infants Born too Small (LBW) among Multiple and Single Births, Arizona, 2011



Infants born in multiple deliveries tend to be born at shorter gestations and smaller than those born in singleton deliveries (**Figure 1B-10**). In 2011, infants born in multiple deliveries were 12.7 times more likely (46.9 vs. 3.7 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for almost two-thirds of infant deaths (63.5 percent; **Figure 2C-4** in section 2C on Age-Specific Mortality). The weight of the newborn also is an important predictor of future morbidity and mortality. Infants born at low birth weight account for 69.3 percent of all infant deaths (**Figure 2C-3**).

Preterm: < 37 weeks of gestation;
LBW: low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

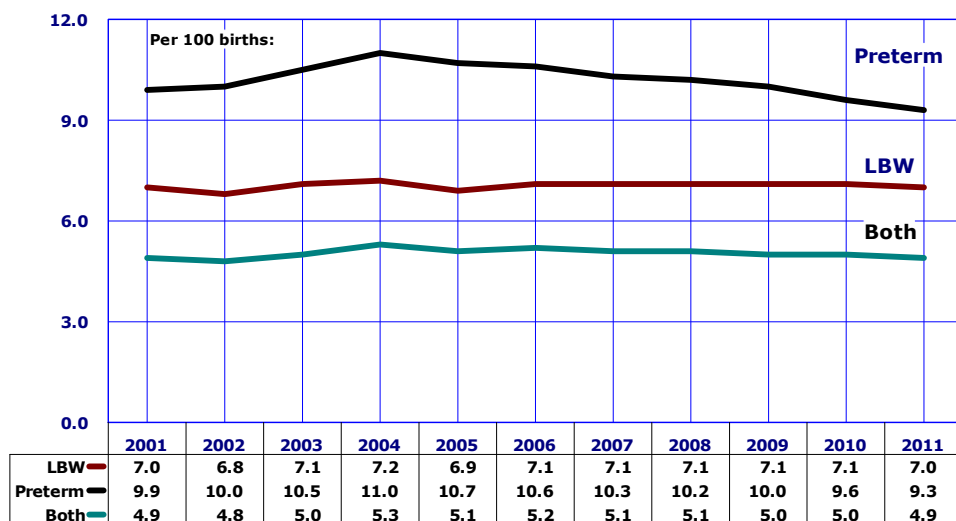
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

The proportion of preterm births decreased from 9.6 percent of all births in 2010 to 9.3 percent in 2011.

The proportion of infants born earlier than expected and smaller (at less than 2,500 grams) was 4.9/100 births in 2011 (**Figure 1B-11**).

Detailed characteristics of births by birthweight and gestational age are provided in **Table 1B-33**. Comparative data by county of residence are available in **Table 5B-16** – **Table 5B-24**.

Figure 1B-11
Preterm and Low Birthweight (LBW) Births by Year, Arizona, 2001-2011

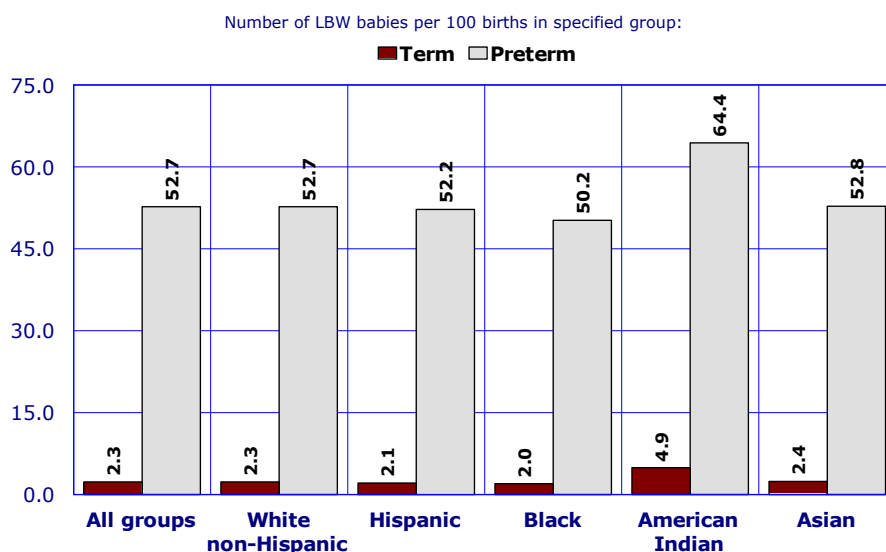


Preterm: < 37 weeks of gestation;
LBW: low birthweight (less than 2,500 grams or 5 pounds 8 ounces).
Note: In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

From 2003 to 2011, between 5.6 and 5.8 percent of all babies were born at low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation are 22.9 times (52.7 vs. 2.3 percent) more likely to be LBW than infants born at term (**Figure 1B-12**). Seven out of ten (70.1 percent) LBW babies born in 2011 were preterm (**Table 1B-3**).

County-level data for LBW newborns are available in **Tables 5B-16** – **5B-23**. Community-level information is in **Table 9A**.

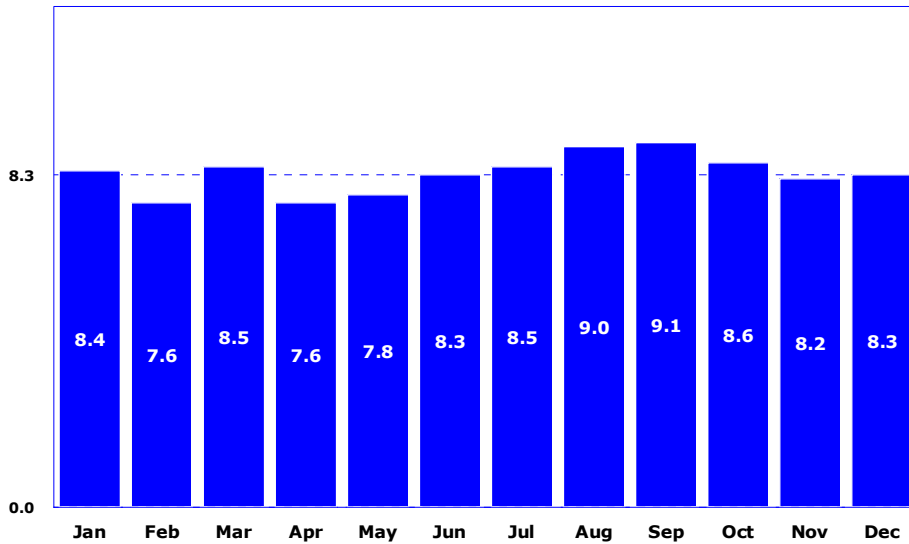
Figure 1B-12
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2011



Preterm: < 37 weeks of gestation;
LBW: low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

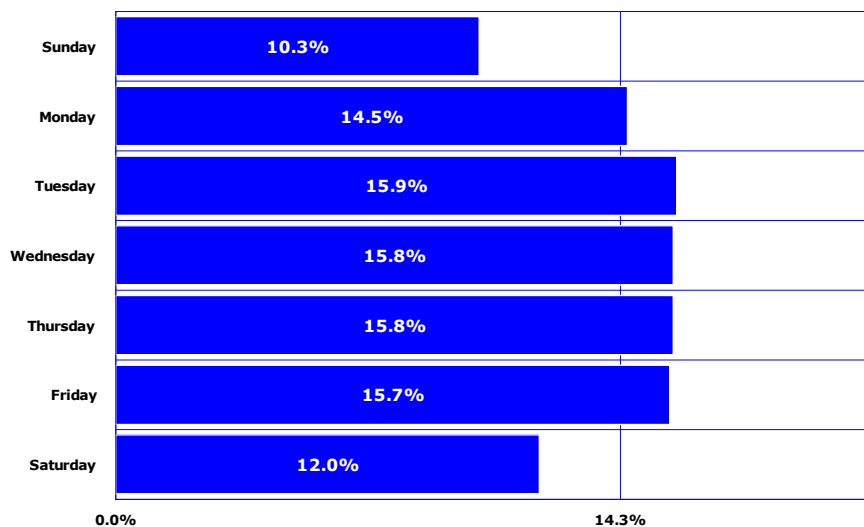
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2011



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (Figure 1B-13).

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2011



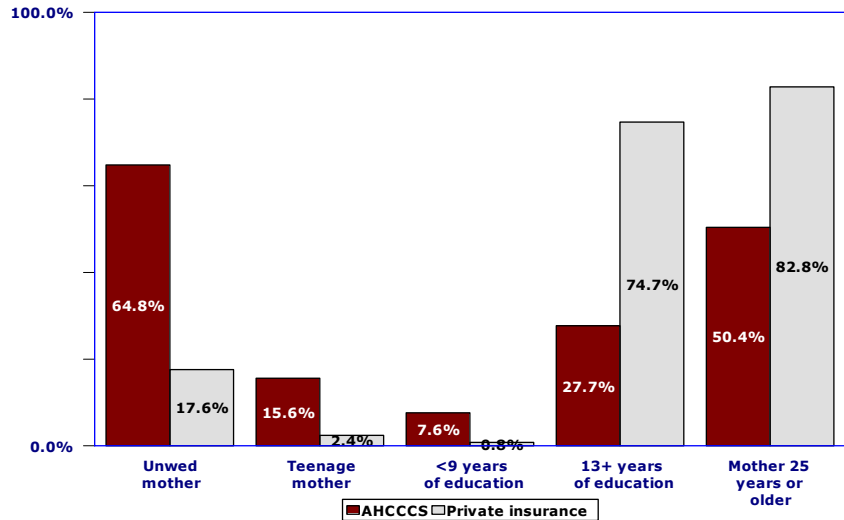
On average 234 infants were born per day in 2011 to Arizona residents. The daily average of resident live births in 2011 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to a biological rhythm of labor, but to increased frequency of obstetric interventions in the timing of delivery (induced labors and elective cesarean deliveries), making it more aligned with the work week schedule.

In 2011, only 10.3 percent of repeat cesarean deliveries occurred on Sundays, compared to 14.5 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (8.4 percent) than it was on week days (16.6 percent).

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

The number of years of maternal education was the only possible index of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. The payee's SES indicator is strongly related to the maternal education indicator. PHI mothers were 2.7 times more likely to have some college education than were AHCCCS mothers (74.7 and 27.7 percent respectively, **Figure 1B-15**). Around 8 percent of AHCCCS mothers had 0-8 years of education, 9.5 times the proportion of PHI mothers. Only 17.6 percent of mothers with PHI were unmarried compared to 64.8 percent of AHCCCS mothers. Eight out of ten mothers with PHI were at least 25 years old compared to 5 out of 10 AHCCCS mothers.

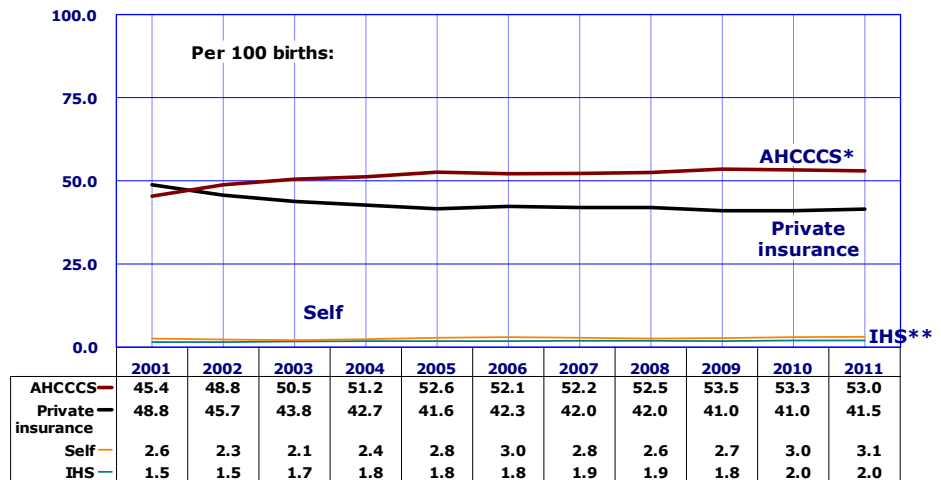
Figure 1B-15
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2011



Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS continues to exceed the share paid by private health insurance (**Figure 1B-16**). In 2001, private insurance funded 48.8 percent of births and AHCCCS paid for 45.4 percent of births. Since 2001, the percent of births paid for by private insurance has decreased 15.0 percent with the percent of births paid for by AHCCCS increasing by 16.7 percent.

Figure 1B-16
Births by Payer and Year, Arizona, 2001-2011

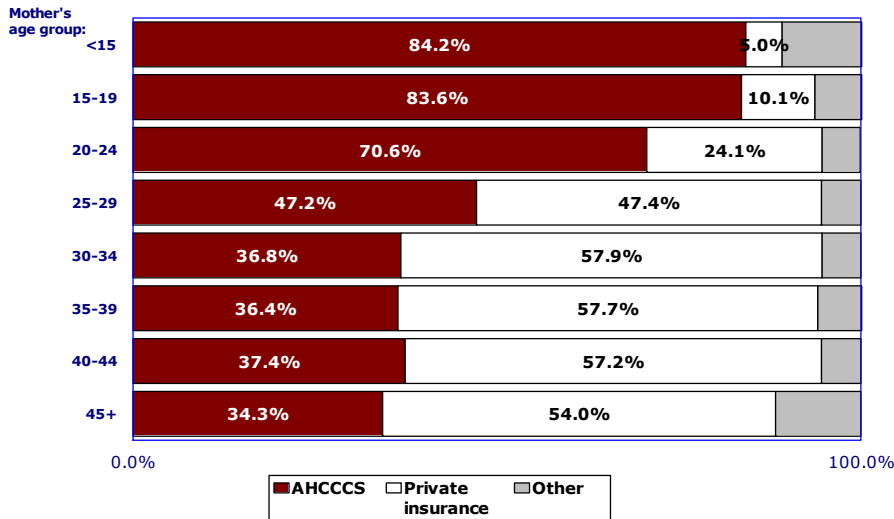


* The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.
** The Indian Health Service.

The share of AHCCCS funded births varied little from 2005 to 2011. The share of private health insurance also remained stable during this time period. In 2011, the payment source was the mothers themselves and/or their families (i.e., self-pay) in 3.1 percent of the deliveries. The Indian Health Service paid for 2.0 percent of the births in 2011 (**Table 1B-28**; see also **Table 1B-25**).

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-17
Payee for Delivery by Mother's Age Group, Arizona, 2011



In 2011, the Arizona Health Care Cost Containment System (AHCCCS) paid for the absolute majority of the deliveries to mothers 24 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women giving birth who were 25 years old or older in 2011 (based on data in **Table 1B-28**).

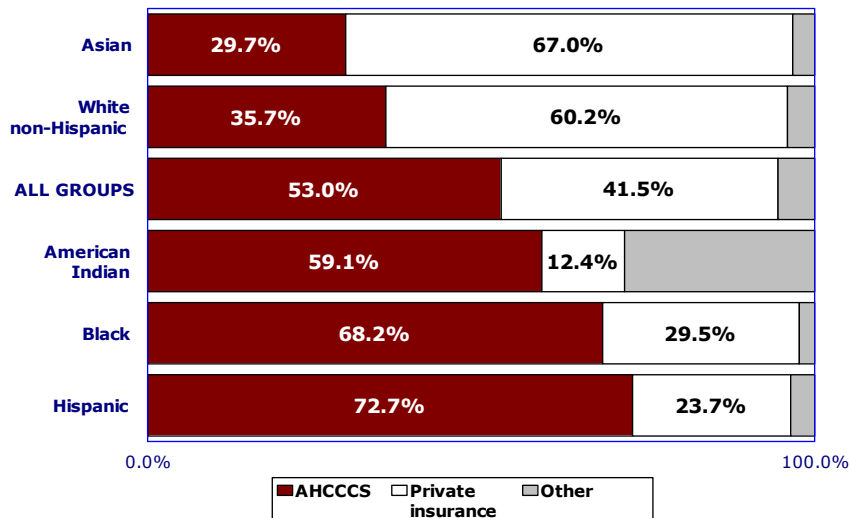
For each of the age groups the AHCCCS share substantially increased since 1989. Below are the proportions of deliveries paid for by the AHCCCS in 1989:

- <15 years: 45.3 percent
- 15-19 years: 49.0 percent
- 20-24 years: 34.3 percent
- 25-29 years: 19.4 percent
- 30-34 years: 14.5 percent
- 35-39 years: 13.9 percent
- 40+ years: 14.2 percent.

From 1989 to 2011, the AHCCCS share more than doubled among mothers 25 years old or older.

Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Figure 1B-18
Payee for Delivery by Mother's Race/Ethnicity, Arizona, 2011



In 2011, private insurance was the largest payer for deliveries of Asian (at 67.0 percent) and White non-Hispanic infants (at 60.2 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Hispanic or Latino (72.7 percent), Black or African American (68.2 percent) and American Indian women (59.1 percent).

The Indian Health Service as a payer accounted for a 26.8 percent share of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-28**).

Hispanics or Latino accounted for 52.2 percent of the 45,148 deliveries paid for by the AHCCCS. Thirty percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-28**).

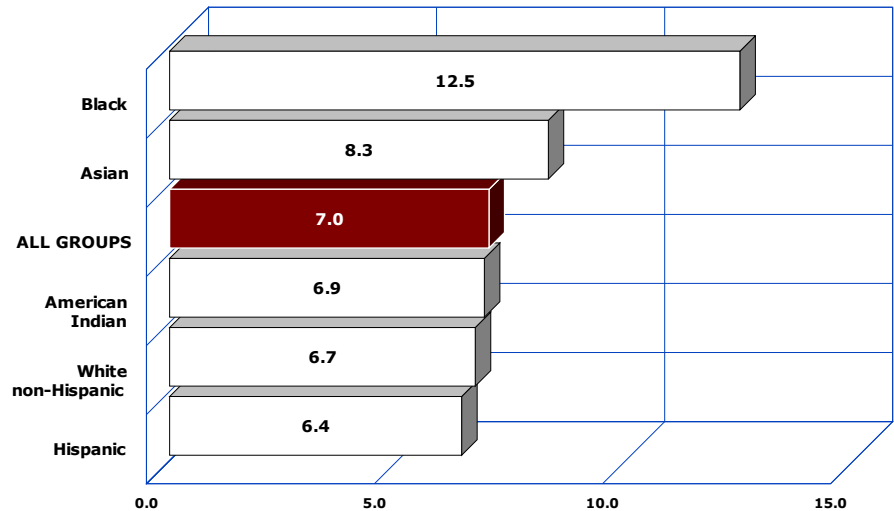
Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program. Other = Indian Health Service, self, or unknown.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

In 2011, 7.0 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's race/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.5 percent) and Asian or Pacific Islander mothers (8.3 percent). Newborns of American Indian, Hispanic or Latino, and White non-Hispanic mothers had the lowest LBW rates (6.9, 6.7, and 6.4 percent respectively; based on data in **Table 1B-26**).

Figure 1B-19
Percent Low Birthweight* by Mother's Race/Ethnicity, Arizona Residents, 2011

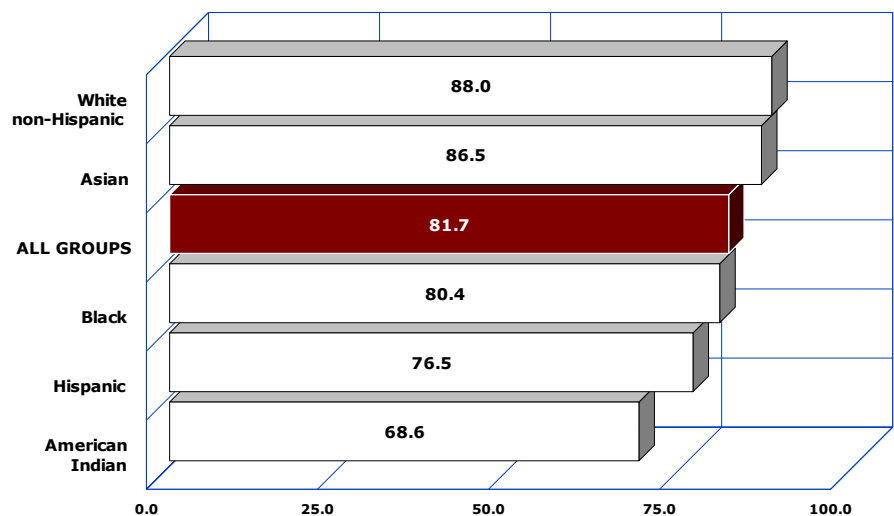


Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

Figure 1B-20
First Trimester Prenatal Care by Mother's Race/Ethnicity, Arizona Residents, 2011

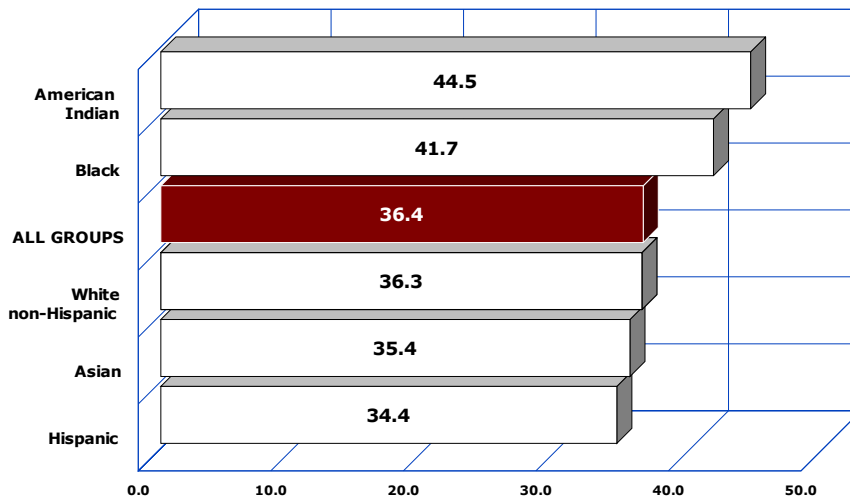
The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) increased from 80.3 in 2009 to 81.7 in 2011 (**Table 1B-2**).

In Arizona, American Indian, Hispanic or Latino, and Black or African American mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). The highest rates of utilization of early prenatal care were among White non-Hispanic and Asian or Pacific Islander mothers (based on data in **Table 1B-26**).



1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

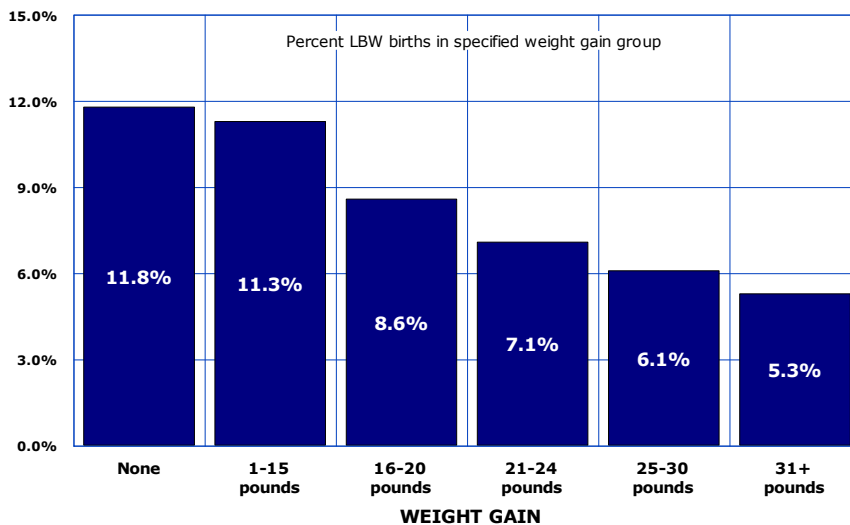
Figure 1B-21
Maternal Medical Risk Factors per 100 Births by Mother's Race/Ethnicity, Arizona, 2011



Maternal medical risk factors (such as anemia, diabetes, hypertension, or kidney disease) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2011, American Indian or Alaska Native and Black or African American women giving birth had the highest proportion of medical risk factors (44.5 and 41.7 percent respectively; **Figure 1B-21**). For American Indians, this rate of maternal medical risk factors per 100 births increased by 7.5 percent from 2010.

Births with medical risk factors reported per 100 births in specified group.

Figure 1B-22
Risk for Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2011



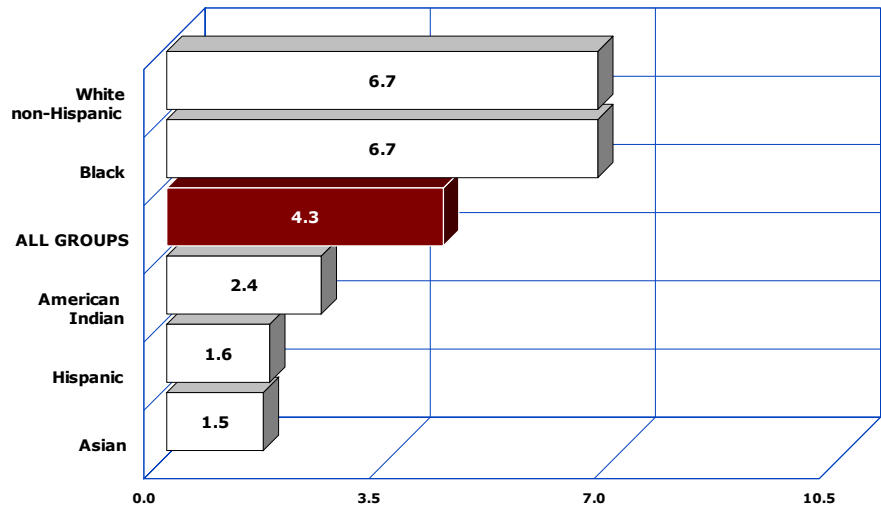
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively affect both maternal and pregnancy outcome (see **Figure 2C-4.3**). Women who are of normal weight (average body mass index or BMI) should gain 21-35 pounds during pregnancy. Women who are underweight should gain more (28-40 pounds), and women who are overweight should gain less (15 to 25 pounds). Unfortunately, it is not possible to determine whether weight gain is within the recommendations for the mother's BMI because the mother's pre-pregnancy weight and height is not reported on the birth certificate.

Maternal weight gain has been shown to be correlated with infant birthweight. In 2011, as in previous years, the percent of infants with low birthweight decreased with increasing maternal weight gain (**Figure 1B-22**).

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 4.3 percent of women giving birth in 2011 (**Table 1B-26, Table 5B-30**), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear, whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it when they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Asian, and Hispanic mothers (**Figure 1B-23**).

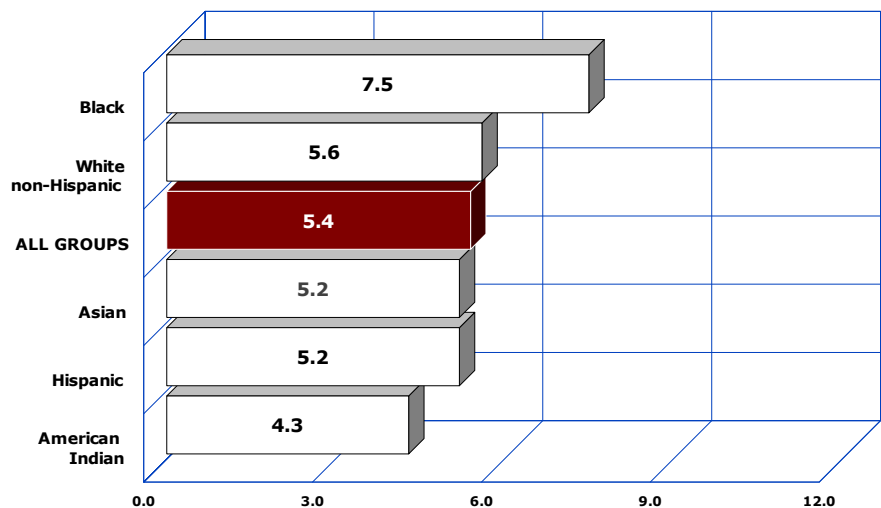
Figure 1B-23
Self-reported Tobacco Use during Pregnancy by Race/Ethnicity, Arizona, 2011



Mothers giving birth who reported tobacco use per 100 births in specified group.

Figure 1B-24
Rates of Admission to Newborn Intensive Care Units per 100 Births by Mother's Race/Ethnicity, Arizona, 2011

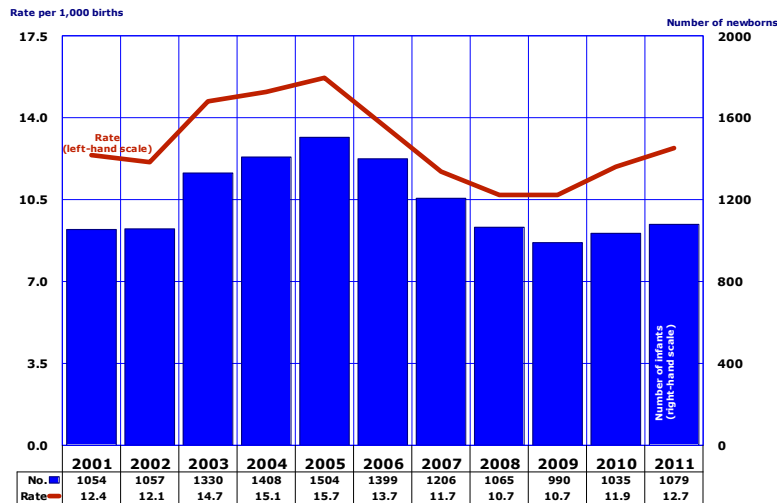
In 2011, 4,635, or 5.4 percent of newborns were admitted to newborn intensive care units (NICUs). Surprisingly, only 47.4 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 56.9 admissions being premature (based on data in **Table 1B-33**). The proportion of NICU admissions differed among race/ethnic groups. In 2011, the rate of NICU admissions for Black or African American (7.5 percent) was the highest among race/ethnic groups (**Table 1B-26**).



The number of newborns admitted to Intensive Care Units per 100 births in specified group.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

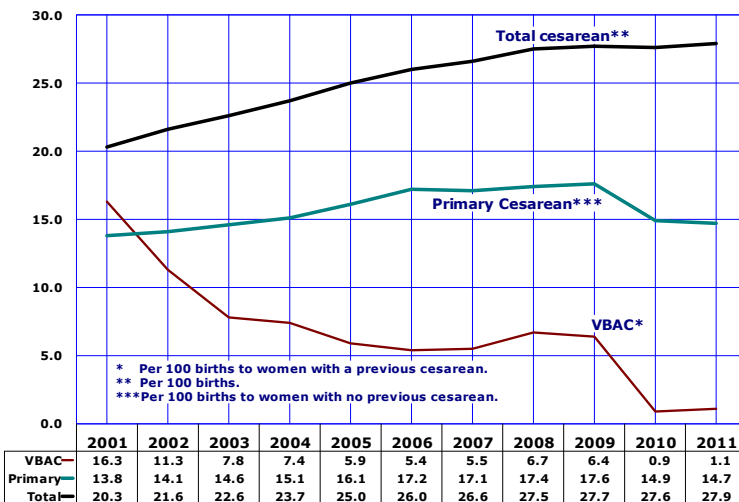
Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2001-2011



Information about maternal drug use during pregnancy is not reported on Arizona birth certificates. However, it can be obtained from the hospital discharge database. There are several diagnostic codes which identify exposure of fetus or newborn to specific noxious substances (such as narcotics, hallucinogenic agent, or cocaine) transmitted via placenta or breast milk. Following the four years of decline between 2005 and 2009 in the number of newborns hospitalized after birth due to maternal drug use during pregnancy, the rate increased from 10.7/1,000 in 2009 to 12.7/1,000 in 2011, representing an 18.7 percent increase.

The diagnostic codes and additional information about hospitalizations related to noxious influences affecting the fetus are available online on the Health Status and Vital Statistics website at <http://www.azdhs.gov/plan/hip/for/substance/index.htm>

Figure 1B-26
Total and Primary Cesarean Deliveries and Vaginal Births after Previous Cesarean (VBAC), Arizona, 2001-2011



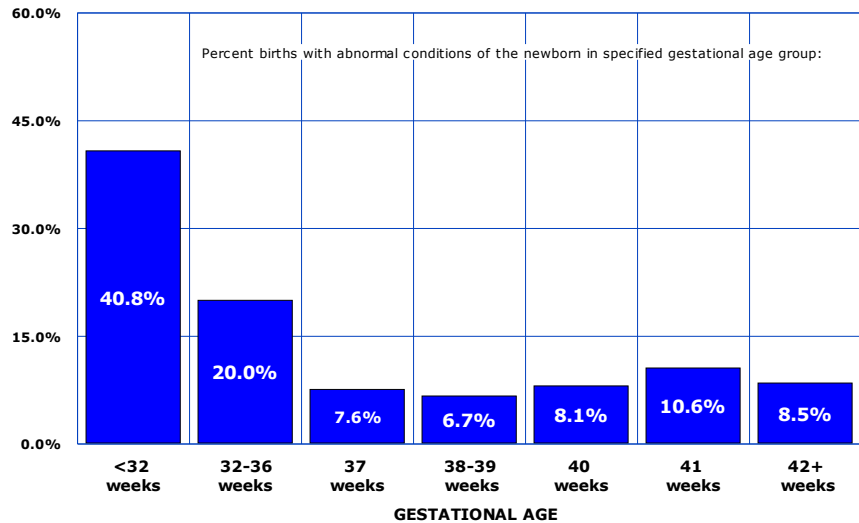
The rate of cesarean delivery increased to an all-time high of 27.9 percent of all resident births in 2001 (Figure 1B-26, Table 1B-2).

The primary cesarean rate in 2011 (14.7 per 100 live births to women who had no previous cesarean) decreased by 16.5 percent from 2009 (17.6 per 100 live births).

The rate of vaginal birth after previous cesarean delivery (VBAC) declined 93.3 percent from a recent high of 16.3 in 2000 to 1.1 in 2011.

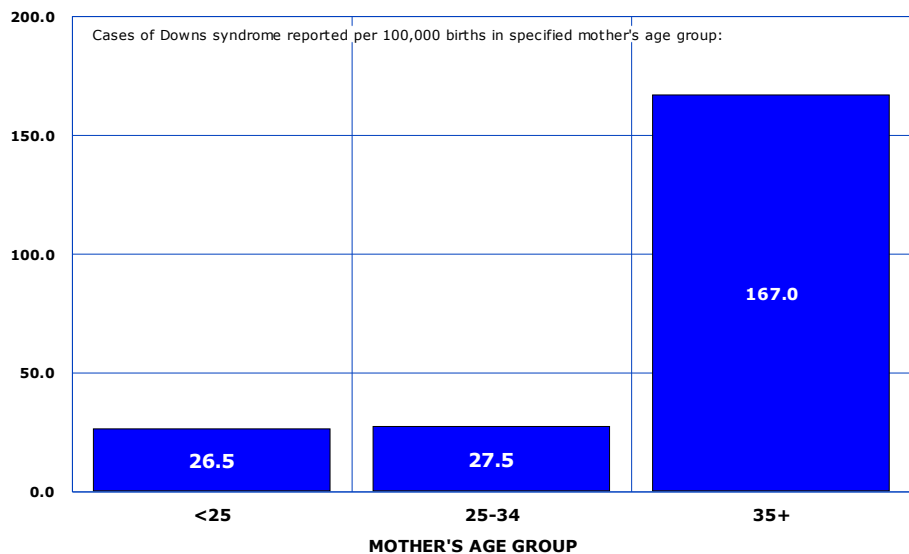
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-27
Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2011



Since the first year these data were collected, three of the eight specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/ respiratory distress syndrome (RDS)*. *Hyaline membrane disease/RDS* is a common cause of morbidity in preterm infants. The rates of abnormal conditions are the highest among very preterm (less than 32 weeks of gestation) and moderately preterm (32-36 weeks of gestation; **Figure 1B-27**).

Figure 1B-28
The Incidence of Downs Syndrome by Mother's Age Group, Arizona, 2011



Congenital anomalies (birth defects) are the leading cause of infant death in Arizona and nationally. They are also the cause of physical defects and metabolic diseases.

For various anomalies, rates vary widely with maternal age. For example, in 2011 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of mental retardation was substantially higher for births to mothers aged 35 years and over (**Figure 1B-28, Table 1B-34**). The incidence rate of 167.0 cases of Down's Syndrome per 100,000 births to women 35 years or older was 6.3 times greater than the incidence rate of 26.5 for women aged 24 years or younger.

**TABLE 1B-1
BIRTH RATE¹, GENERAL FERTILITY RATE², TOTAL FERTILITY RATE³,
GROSS REPRODUCTION RATE, AND AGE-SPECIFIC BIRTH RATES⁴ BY YEAR,
ARIZONA AND UNITED STATES, 2001-2011**

Year	Area	Birth rate	General fertility rate	Total fertility rate ⁵	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 years and over
2001	AZ	16.1	75.9	2,300	1,150	1.0	63.3	136.2	123.4	88.5	38.7	8.5	0.5
	U.S.	14.1	65.3	2,034	994	0.8	45.9	106.2	113.4	91.9	40.6	8.1	0.5
2002	AZ	16.0	75.5	2,309	1,124	1.1	59.7	136.8	122.9	93.8	38.6	8.3	0.5
	U.S.	13.9	64.8	2,013	983	0.7	42.9	103.5	113.6	91.6	41.4	8.3	0.5
2003	AZ	16.1	76.3	2,330	1,141	1.0	59.2	135.7	126.2	95.6	39.0	8.6	0.6
	U.S.	14.1	66.1	2,043	NA	0.6	41.7	102.6	115.7	95.2	43.8	8.7	0.5
2004	AZ	16.0	75.7	2,309	1,127	0.9	58.2	131.4	125.7	95.7	40.0	9.2	0.6
	U.S.	14.0	66.4	2,049	NA	0.7	41.2	101.8	115.5	95.5	45.4	9.0	0.6
2005	AZ	15.8	74.7	2,278	1,111	0.9	56.5	129.8	125.3	94.5	39.3	8.6	0.6
	U.S.	14.0	66.7	2,054	NA	0.7	40.4	102.2	115.6	95.9	46.3	9.1	0.6
2006	AZ	16.4	80.0	2,392	1,167	0.8	59.6	131.8	132.5	95.6	48.5	9.3	0.3
	U.S.	14.2	68.5	2,101	NA	0.6	41.9	105.9	116.8	97.7	47.3	9.4	0.6
2007	AZ	16.0	78.9	2,364	1,154	0.8	59.5	132.2	124.7	98.6	46.8	9.5	0.7
	U.S.	14.3	69.5	2,122	NA	0.6	42.5	106.3	117.5	99.9	47.5	9.5	0.6
2008	AZ	15.2	74.8	2,236	1,093	0.7	54.9	122.2	119.5	94.2	46.2	9.0	0.6
	U.S.	14.0	68.6	2,084	NA	0.6	41.5	103.0	115.1	99.3	46.9	9.8	0.7
2009	AZ	14.0	68.9	2,058	1,006	0.6	49.1	110.4	110.7	88.6	42.5	8.9	0.8
	U.S.	13.5	66.7	2,007	NA	NA	NA	NA	NA	NA	NA	NA	NA
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	NA	NA	NA	NA	NA	NA	NA	NA
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	NA	NA	NA	NA	NA	NA	NA	NA

¹The number of births per 1,000 population.

²The number of births per 1,000 women of childbearing age (15-44 years old).

³The total fertility rate (TFR) is the sum of age group specific birth rates multiplied by the number of years in the age group (five years in this case) and can be interpreted as the average number of children a group of 50 women are expected to have between the ages of 15 and 50 if they were to survive until age 50. At the individual level, the 2011 TFR of 2,001 indicates that a woman can expect to have around 2 children between the ages of 15 and 50, assuming they experience the same age-specific birth rates as were observed in 2011.

⁴The sums of birth rates by 5-year age groups multiplied by the proportion of births that were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during her childbearing years. See Table 1B-2 for the annual proportions of births that were female in 2000-2010.

⁵The number of births per 1,000 women in specified age group. For females under 15, the rate is calculated using the female population 10-14 years of age. For women over 44, the rate is calculated using the female population 45-49 years of age.

TABLE 1B-2
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE
AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER, AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(ALL RACE/ETHNIC GROUPS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190
Age of mother											
≤19 years	13.8	13.1	12.9	12.7	12.5	12.7	12.6	12.3	11.8	10.8	9.9
≥30 years	31.0	31.4	31.6	32.3	32.2	31.6	32.3	33.1	33.8	35.0	36.1
Marital status											
Unmarried	39.4	40.2	41.2	41.9	42.8	43.9	45.0	45.1	45.2	44.7	44.3
Mother's education											
<9 years	9.3	9.1	9.4	9.3	8.7	8.2	7.8	6.9	6.1	5.3	4.6
Mother's race/ethnicity											
White ¹	45.7	44.4	42.8	42.0	41.4	42.2	41.1	42.3	43.0	44.5	45.0
Hispanic	41.2	41.3	43.1	43.7	44.0	44.0	44.5	43.0	41.4	39.4	38.0
Black	3.2	3.2	3.3	3.4	3.6	3.8	4.1	4.3	4.7	5.0	5.1
American Indian	6.3	6.3	6.5	6.6	6.6	6.2	6.2	6.4	6.7	6.7	6.8
Other	3.7	4.8	4.4	4.2	4.4	3.9	4.0	4.1	4.2	4.4	5.0
Prenatal care begin											
1 st Trimester	75.5	75.7	75.6	76.3	77.7	77.7	77.6	79.4	80.3	81.9	81.7
3 rd Trimester	4.3	4.4	4.3	4.4	3.8	3.7	3.7	3.6	3.4	3.2	3.1
No Care	1.9	2.2	2.9	2.8	2.3	2.4	2.2	1.8	1.8	1.6	1.6
Prenatal visits											
1-4	4.5	4.5	4.3	4.6	4.2	4.0	3.9	3.6	3.5	3.3	3.4
≥5	90.6	91.5	90.2	91.7	93.3	93.5	93.9	94.5	94.5	94.9	94.5
≥9	75.9	75.9	74.6	75.5	76.6	76.4	76.7	77.8	78.9	80.5	80.6
≥13	33.0	31.7	29.8	27.6	25.9	27.5	29.4	29.9	30.0	31.6	33.7
Medical risk/											
 Complications²											
Gestational age ³	45.1	45.6	44.2	44.6	44.7	44.3	45.3	46.5	48.1	49.7	46.3
Preterm (<37 weeks)	9.9	10.0	10.5	11.0	10.7	10.6	10.3	10.2	10.0	9.6	9.3
Birth weight											
<2,500 grams	7.0	6.8	7.1	7.2	6.9	7.1	7.1	7.1	7.1	7.1	7.0
<1,500 grams	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2
Child's sex											
Male	50.9	51.3	51.0	51.2	51.2	51.2	51.2	51.1	51.1	50.9	51.2
Female	49.1	48.7	49.0	48.8	48.8	48.8	48.8	48.9	48.9	49.1	48.8
Plurality											
Multiple births	2.7	2.7	2.8	2.9	2.7	2.8	2.7	2.9	2.8	2.9	2.8
Caesarean delivery	20.3	21.6	22.6	23.7	25.0	26.0	26.6	27.5	27.7	27.6	27.9
Place of delivery											
Hospital ⁴	98.9	98.9	98.8	98.8	98.9	98.9	99.0	99.0	98.8	98.8	98.5
Attendant at birth											
Midwife ⁵	7.6	7.0	6.5	6.7	6.1	5.6	5.7	6.1	6.5	6.6	6.4
Previous live births											
1 or more	62.3	62.4	62.2	62.9	63.0	62.5	63.1	63.3	63.1	63.0	62.6

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-3
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL
CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER, AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	5,943	5,926	6,427	6,704	6,640	7,266	7,285	7,026	6,573	6,155	5,949
Age of mother											
≤19 years	16.1	14.9	14.9	14.3	14.2	14.5	14.2	13.2	13.1	12.3	11.6
≥30 years	33.1	34.3	34.7	34.3	33.5	34.3	34.7	35.8	37.4	37.8	37.9
Marital status											
Unmarried	44.5	45.3	45.7	46.5	48.3	48.3	49.2	48.6	48.5	49.4	50.0
Mother's education											
<9 years	9.7	8.8	9.5	8.7	8.3	7.8	7.7	6.3	5.7	4.7	4.5
Mother's race/ethnicity											
White ¹	44.0	43.9	41.6	42.3	41.1	39.8	40.9	41.0	41.5	41.9	43.5
Hispanic	39.5	39.2	41.8	41.2	40.8	42.3	41.5	40.8	38.7	38.1	34.9
Black	6.3	5.5	5.5	5.6	6.6	6.7	7.3	7.2	8.5	8.0	9.2
American Indian	6.6	6.1	6.3	6.6	6.9	6.5	5.8	6.1	6.0	6.6	6.8
Other	3.6	5.3	4.8	4.4	4.7	4.7	4.5	5.0	5.2	5.4	5.7
Prenatal care began											
1st Trimester	73.6	74.2	73.8	75.4	77.4	77.2	77.4	79.5	80.6	81.0	81.2
3rd Trimester	3.3	3.5	3.5	2.9	2.7	2.8	3.1	2.9	2.6	2.7	2.3
No Care	4.1	4.6	5.1	4.5	4.7	4.9	4.5	3.8	3.6	3.2	3.2
Prenatal visits											
1-4	8.4	9.0	8.0	9.3	9.4	8.5	8.2	7.7	7.6	7.5	7.3
≥5	82.0	82.9	82.9	84.7	85.6	86.3	87.1	88.2	88.3	88.8	88.5
≥9	60.4	57.7	58.7	59.8	60.3	60.1	61.2	63.0	64.1	65.2	65.0
≥13	27.3	25.0	26.5	23.9	22.1	21.9	25.1	25.6	25.7	27.1	28.5
Medical risks/ Complications²	68.0	68.9	64.0	63.8	67.2	65.1	65.9	68.7	70.5	73.3	69.2
Gestational age³											
Preterm (<37 weeks)	70.7	70.9	70.9	73.3	73.7	72.7	72.3	71.7	71.2	70.2	70.1
Birth weight											
<1,500 grams	15.5	16.6	15.9	16.4	16.9	16.9	16.8	16.5	16.7	15.3	16.8
<1,000 grams	7.4	8.8	7.9	7.9	8.7	7.7	8.1	7.7	8.0	7.1	8.3
Child's sex											
Male	47.4	48.3	48.6	48.0	47.1	47.5	47.9	48.1	47.8	46.5	46.8
Female	52.5	51.7	51.4	52.0	52.9	52.5	52.1	51.9	52.2	53.5	53.2
Plurality											
Multiple births	22.5	23.2	23.4	23.7	22.2	22.5	23.1	23.3	22.1	23.1	22.8
Caesarean delivery	37.6	39.7	41.2	40.8	42.5	43.2	44.2	46.7	46.4	46.5	46.8
Place of delivery											
Hospital ⁴	99.6	99.7	99.6	99.6	99.6	99.7	99.6	99.7	99.8	99.6	99.4
Attendant at birth											
Midwife ⁵	3.7	3.1	2.8	3.1	2.5	1.9	2.5	2.6	2.3	2.6	2.3
Previous live births											
1 or more	58.1	58.0	58.7	58.1	58.3	59.6	60.5	60.5	59.7	60.3	59.6

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-4
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(URBAN REGIONS)*

Characteristic		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births		73,319	74,851	77,905	79,951	82,141	87,910	88,266	85,263	79,046	74,624	73,040
Age of mother	≤19 years	13.5	12.7	12.4	12.2	12.0	12.3	12.1	11.7	11.2	10.3	9.4
	≥30 years	31.5	32.0	32.2	33.1	32.9	32.5	33.3	34.1	35.1	36.2	37.4
Marital status	Unmarried	38.8	39.5	40.4	41.1	41.9	43.0	44.3	44.1	44.2	43.6	43.2
Mother's education	<9 years	10.0	9.7	10.1	9.9	9.3	8.8	8.3	7.4	6.5	5.6	4.9
Mother's race/ethnicity	White ¹	45.3	44.1	42.3	41.4	40.8	41.5	40.2	41.5	42.1	44.1	45.0
	Hispanic	43.9	44.1	46.0	46.7	46.9	46.7	47.5	45.8	44.4	42.0	40.5
	Black	3.5	3.5	3.7	3.8	4.0	4.2	4.5	4.8	5.3	5.6	5.7
	American Indian	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.7
	Other	3.9	5.0	4.6	4.6	4.8	4.1	4.3	4.3	4.6	4.7	5.0
Prenatal care began	1st Trimester	76.1	76.5	76.5	77.1	78.4	78.4	78.2	80.4	81.5	83.1	82.5
	3rd Trimester	4.2	4.2	4.2	4.3	3.6	3.5	3.5	3.3	3.0	2.9	2.9
	No care	1.9	2.2	3.1	2.9	2.4	2.4	2.2	1.7	1.9	1.6	1.6
Prenatal visits	1-4	4.2	4.0	3.9	4.3	3.9	3.7	3.5	3.1	3.0	2.9	3.0
	≥5	90.9	92.0	90.5	92.0	93.7	93.7	94.2	95.1	94.9	95.4	94.8
	≥9	77.3	77.6	76.0	76.6	77.4	77.2	77.5	79.1	80.1	81.9	81.8
	≥13	34.4	32.8	30.5	27.7	25.5	27.5	29.6	30.1	30.6	32.1	34.1
Medical risks/complications²		43.9	44.1	42.2	42.6	42.4	42.8	44.4	46.3	48.6	50.1	47.2
Gestational age³	Preterm (<37 weeks)	10.0	10.1	10.6	11.0	10.8	10.7	10.3	10.2	10.1	9.7	9.4
Birth weight	<2,500 grams	6.9	6.8	7.0	7.1	6.9	7.0	7.0	7.0	7.0	7.0	6.9
	<1,500 grams	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2
Child's sex	Male	50.8	51.4	51.1	51.1	51.1	51.2	51.3	51.0	51.3	50.8	51.2
	Female	49.2	48.6	48.9	48.9	48.9	48.8	48.7	49.0	48.7	49.2	48.8
Plurality	Multiple births	2.8	2.8	2.9	3.0	2.8	2.8	2.8	3.0	2.8	3.0	2.9
Caesarean delivery		20.5	21.8	22.8	23.8	25.4	26.0	26.8	27.8	28.1	28.0	28.3
Place of delivery	Hospital ⁴	99.0	99.1	99.1	99.1	99.2	99.2	99.3	99.3	99.1	99.0	98.8
Attendant at birth	Midwife ⁵	6.7	6.1	5.5	5.7	5.0	4.5	4.6	5.1	5.5	5.4	5.2
Previous live births	1 or more	61.8	65.0	61.9	62.7	62.9	62.3	62.9	63.1	62.9	62.8	62.4
Number of LBW births		5,081	5,079	5,479	5,666	5,630	6,175	6,205	5,974	5,548	5,238	5,065
Age of mother	≤19 years	16.1	16.2	14.9	13.6	13.7	14.3	13.7	12.6	12.7	12.1	10.9
	≥30 years	33.7	35.0	34.9	35.5	33.9	35.3	35.9	37.0	38.5	38.8	39.3
Marital status	Unmarried	44.6	44.8	45.0	45.5	47.2	47.2	48.6	47.4	48.1	48.4	49.0
Mother's education	<9 years	10.5	9.3	10.1	9.2	8.9	8.2	8.2	6.7	5.8	5.2	4.9
Mother's race/ethnicity	White ¹	43.2	43.3	40.9	42.0	40.5	39.1	39.6	39.8	40.5	41.1	42.8
	Hispanic	42.3	42.0	44.6	43.6	43.7	44.6	44.2	43.6	40.9	40.5	37.2
	Black	6.9	6.2	6.1	6.3	7.4	7.6	8.3	8.0	9.8	9.1	10.3
	American Indian	3.5	3.0	3.2	3.3	3.5	3.8	3.1	3.2	3.0	3.5	3.4
	Other	4.1	5.6	5.2	4.9	4.9	4.9	4.8	5.5	5.7	5.7	6.3
Prenatal care began	1st Trimester	73.9	71.0	74.7	75.9	78.0	78.1	77.6	80.2	81.3	82.1	81.9
	3rd Trimester	3.3	3.8	3.4	2.9	2.4	2.6	2.9	2.6	2.2	2.4	2.0
	No care	4.3	4.9	5.4	4.7	4.7	4.9	4.5	3.9	3.8	3.0	3.0
Prenatal visits	1-4	8.1	8.8	7.7	9.1	9.3	8.4	8.1	7.3	7.2	7.1	7.0
	≥5	81.7	83.0	83.1	84.8	85.8	86.5	87.3	88.6	88.7	89.5	88.8
	≥9	61.4	58.4	59.3	60.5	60.9	60.6	61.7	63.7	65.0	66.6	65.8
	≥13	28.5	25.3	27.0	24.6	22.1	22.4	25.6	25.7	26.3	28.1	29.1
Medical risks/complications²		67.2	68.1	62.8	62.7	65.7	64.4	66.0	69.6	71.8	74.6	70.8
Gestational age³	Preterm (<37 weeks)	71.2	71.8	71.8	74.1	75.0	73.5	72.9	72.7	72.2	70.6	71.2
Birth weight	<1,500 grams	15.9	17.2	16.1	16.6	17.2	17.1	17.1	16.8	17.2	15.3	17.4
	<1,000 grams	7.7	9.1	8.0	8.1	9.0	8.0	8.3	8.0	8.3	7.3	8.7
Child's sex	Male	47.7	48.6	48.3	47.7	46.8	47.1	48.2	47.9	48.0	45.9	47.0
	Female	52.3	51.4	51.7	52.2	53.2	52.9	51.8	52.1	52.0	54.1	53.0
Plurality	Multiple births	23.7	24.0	24.4	25.3	22.9	23.2	24.4	23.9	22.8	24.0	23.3
Caesarean delivery		37.9	40.8	41.7	41.1	43.1	43.4	45.1	47.4	47.2	47.0	47.7
Place of delivery	Hospital ⁴	99.7	99.8	99.7	99.7	99.7	99.8	99.7	99.8	99.8	99.7	99.5
Attendant at birth	Midwife ⁵	3.0	2.6	2.2	2.4	1.8	1.4	1.9	2.2	1.9	2.1	1.6
Previous live births	1 or more	57.9	57.3	58.6	58.4	58.1	58.9	60.1	59.8	59.7	59.3	59.2

* Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas.

See Technical Notes for more information.

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center, or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-5
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(RURAL REGIONS)***

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	11,851	12,498	12,848	13,409	13,603	14,083	14,413	13,952	13,570	12,429	12,150
Age of mother											
≤19 years	15.9	15.7	15.7	15.5	15.5	14.9	15.8	15.4	15.4	13.9	12.7
≥30 years	27.7	27.4	27.9	27.3	27.9	26.6	26.2	26.8	26.7	27.9	28.2
Marital status											
Unmarried	43.3	44.5	46.0	46.8	48.4	49.2	49.4	51.1	50.7	51.2	51.0
Mother's education											
<9 years	5.1	5.2	5.2	5.6	5.4	4.9	4.5	4.0	4.0	3.1	2.5
Mother's race/ethnicity											
White ¹	47.9	46.5	45.8	45.7	45.0	46.5	46.6	46.7	48.1	47.2	47.9
Hispanic	24.3	24.4	25.5	26.1	26.3	26.7	26.6	25.7	24.3	24.4	23.0
Black	1.2	1.1	1.2	1.1	1.0	1.1	1.1	1.3	1.2	1.2	1.4
American Indian	24.6	24.3	25.0	25.2	25.4	23.5	23.2	24.4	24.4	25.0	25.7
Other	2.0	3.7	2.6	1.9	2.2	2.2	2.6	2.0	2.1	2.2	2.0
Prenatal care began											
1st Trimester	71.9	70.8	70.0	71.4	73.9	73.5	73.7	72.7	73.3	74.8	77.1
3rd Trimester	5.0	5.1	4.9	4.8	4.7	4.9	4.8	5.2	5.5	5.3	4.1
No care	1.6	1.7	1.7	2.1	2.1	1.9	1.9	1.9	1.5	1.8	1.5
Prenatal visits											
1-4	6.8	7.2	6.8	6.5	6.1	6.2	6.0	6.8	6.1	5.9	5.7
≥5	89.2	88.5	88.0	90.1	91.5	91.7	91.9	91.1	92.0	91.8	92.3
≥9	67.1	66.0	66.6	68.9	72.4	71.1	71.4	69.7	71.5	71.9	73.3
≥13	24.5	25.2	25.5	26.7	28.0	27.6	27.9	28.8	26.5	28.7	31.2
Medical risks/complications²	52.1	54.7	56.3	56.6	58.3	53.5	50.7	48.2	45.1	47.9	41.1
Gestational age³											
Preterm (<37 weeks)	9.3	9.4	10.0	10.9	10.0	10.0	10.0	9.7	9.7	9.4	8.8
Birth weight											
<2,500 grams	7.2	6.8	7.3	7.7	7.4	7.7	7.5	7.5	7.6	7.4	7.3
<1,500 grams	1.0	0.9	0.8	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.0
Child's sex											
Male	51.1	51.1	50.6	51.5	51.7	51.0	50.0	51.3	50.3	51.4	51.3
Female	48.9	48.9	49.4	48.5	48.3	49.0	50.0	48.7	49.7	48.6	48.7
Plurality											
Multiple births	1.8	2.4	2.3	2.0	2.3	2.4	2.2	2.4	2.5	2.3	2.6
Caesarean delivery	19.3	20.6	21.4	22.9	23.1	25.8	25.3	26.0	25.4	25.2	25.8
Place of delivery											
Hospital ⁴	97.9	97.5	97.2	96.8	96.9	97.2	97.3	97.1	96.9	97.2	97.0
Attendant at birth											
Midwife ⁵	13.5	12.2	12.4	12.6	12.9	12.4	12.5	12.7	12.6	13.4	14.0
Previous live births	1 or more	65.6	65.0	64.3	64.4	64.1	64.3	64.5	64.4	64.3	63.8
Number of LBW births	857	844	940	1,030	1,003	1,080	1,080	1,052	1,025	917	884
Age of mother											
≤19 years	16.6	16.2	17.8	17.8	17.5	16.0	17.2	16.4	15.1	13.1	15.5
≥30 years	29.9	29.7	33.9	27.6	31.5	28.8	28.1	29.4	31.1	31.7	30.1
Marital status											
Unmarried	43.5	48.3	50.3	52.1	54.0	54.9	53.1	55.2	50.6	55.2	55.7
Mother's education											
<9 years	5.5	5.8	6.4	6.2	5.4	5.4	4.8	3.9	4.9	2.3	2.3
Mother's race/ethnicity											
White ¹	48.8	47.5	45.6	43.8	44.8	43.5	48.0	47.6	46.8	46.6	47.3
Hispanic	22.6	22.6	26.0	28.2	24.7	29.5	25.8	24.9	26.9	24.1	21.6
Black	2.8	1.7	2.0	1.7	1.8	1.8	1.8	2.6	1.3	1.4	2.6
American Indian	24.5	24.3	23.8	24.5	26.2	21.9	21.4	22.7	22.2	24.1	26.2
Other	1.3	3.9	2.6	1.9	2.5	3.3	3.1	2.2	2.8	3.8	2.3
Prenatal care began											
1st Trimester	71.6	71.0	68.7	72.5	74.1	72.0	76.0	75.7	76.7	74.3	77.3
3rd Trimester	3.3	3.8	3.9	2.4	4.7	4.3	4.2	4.1	4.4	4.0	3.5
No care	2.9	2.8	3.8	3.5	4.4	5.2	4.5	3.5	2.6	4.4	4.0
Prenatal visits											
1-4	9.7	10.0	10.0	10.6	9.9	9.4	9.4	10.2	9.8	9.5	8.7
≥5	83.3	82.8	81.6	83.7	85.0	84.9	85.9	85.8	86.4	85.1	86.2
≥9	54.6	53.8	55.3	55.9	57.3	56.8	58.1	59.0	59.2	57.4	60.4
≥13	20.4	23.3	23.6	20.1	22.1	19.3	22.0	24.9	22.6	21.3	25.2
Medical risks/complications²	73.0	73.6	71.1	69.3	75.3	69.2	65.1	63.9	63.6	66.1	60.2
Gestational age³											
Preterm (<37 weeks)	67.6	65.6	65.0	69.5	66.1	68.0	68.9	65.9	65.7	67.8	64.0
Birth weight											
<1,500 grams	13.4	12.8	14.7	15.2	14.8	15.7	15.3	14.5	14.4	15.3	13.5
<1,000 grams	5.4	6.8	6.5	6.7	7.1	6.2	7.1	5.7	5.9	6.3	6.0
Child's sex											
Male	46.3	46.7	49.8	49.2	48.5	49.8	46.1	49.1	47.0	50.2	45.9
Female	53.7	53.3	50.1	50.8	51.5	50.2	53.9	50.8	53.0	49.8	54.1
Plurality											
Multiple births	15.6	18.2	17.8	15.0	17.8	18.2	15.9	19.8	18.4	17.9	20.5
Caesarean delivery	35.6	33.3	38.2	39.0	38.6	41.6	39.2	42.7	42.0	43.2	41.4
Place of delivery											
Hospital ⁴	99.2	98.9	99.1	99.1	98.8	99.4	99.3	99.1	99.4	99.2	98.5
Attendant at birth											
Midwife ⁵	7.6	6.4	6.2	6.5	6.1	5.3	5.6	5.1	4.6	5.3	6.3
Previous live births	1 or more	59.3	62.1	59.3	56.6	59.5	63.1	62.2	64.6	59.8	62.2

* Rural = Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai counties. The remaining counties comprise Arizona's urban areas. See Technical Notes for more information.

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center, or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-6
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294
Age of mother											
≤19 Years	8.7	7.9	7.6	7.1	6.9	7.5	7.3	7.1	6.8	6.2	5.5
≥30 Years	39.1	39.3	39.9	40.3	39.3	37.9	38.5	38.7	39.3	40.4	41.5
Marital status											
Unmarried	24.5	25.0	25.1	24.8	26.1	27.7	28.4	29.5	29.7	29.9	29.5
Mother's education											
<9 years	1.5	1.3	1.5	1.4	1.3	1.2	1.2	1.1	1.2	1.1	1.2
Prenatal care began											
1st Trimester	86.2	86.5	86.8	87.3	87.7	86.9	86.5	87.3	87.9	88.2	88.0
3rd Trimester	1.9	1.9	1.9	1.9	1.8	2.0	2.1	1.9	1.9	2.1	1.8
No Care	0.6	0.7	0.6	0.7	0.8	0.9	0.9	0.7	0.7	0.6	0.6
Prenatal visits											
1-4	2.0	2.2	2.3	2.1	2.0	2.0	2.1	2.0	1.8	1.7	1.7
≥5	94.9	95.4	94.0	96.1	97.1	96.9	97.0	97.2	97.3	97.5	97.1
≥9	84.7	84.1	82.8	85.2	85.7	84.9	84.6	85.0	86.4	87.6	86.9
≥13	35.2	33.4	32.1	30.6	29.9	32.4	34.6	34.8	35.0	37.4	39.7
Medical risks/											
Complications¹											
46.7	47.9	49.2	58.7	48.1	45.4	47.5	47.7	48.1	49.5	46.1	
Gestational Age²											
Preterm (<37 weeks)	10.1	10.5	11.0	11.4	10.9	10.5	10.4	10.1	9.9	9.2	9.1
Birth weight											
<2,500 grams	6.7	6.7	6.9	7.2	6.9	6.7	7.1	6.9	6.9	6.7	6.7
<1,500 grams	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.1
Child's sex											
Male	51.2	51.7	51.2	51.0	51.5	51.3	50.8	51.1	51.2	51.4	51.1
Female	48.8	48.3	48.8	49.0	48.5	48.7	49.2	48.9	48.8	48.6	48.9
Plurality											
Multiple births	3.3	3.5	3.5	3.8	3.4	3.2	3.5	3.6	3.4	2.9	3.5
Caesarean delivery											
22.2	23.8	24.2	25.9	27.1	27.9	28.6	29.5	29.5	27.6	29.4	
Place of delivery											
Hospital ³	98.0	98.2	97.9	97.6	97.8	97.9	97.9	97.9	97.6	98.8	97.4
Attendant at birth											
Midwife ⁴	5.0	4.0	3.9	3.6	3.1	3.8	3.6	4.0	4.5	6.6	4.9
Previous live births											
1 or more	59.7	59.3	58.9	59.8	59.2	58.9	59.7	59.5	59.4	63.0	59.2

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-7
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of LBW births	2,615	2,600	2,672	2,836	2,729	2,891	2,978	2,878	2,727	2,579	2,586
Age of mother											
≤19 years	9.7	9.3	9.5	9.3	8.6	8.6	8.8	7.6	8.7	7.1	6.8
≥30 years	42.9	42.7	44.5	41.9	40.5	41.8	40.9	41.8	43.2	43.6	44.8
Marital status											
Unmarried	27.8	31.7	30.3	30.3	32.7	33.0	34.6	34.1	33.5	34.7	36.2
Mother's education											
<9 years	2.3	2.1	2.0	1.6	1.8	1.8	1.6	1.4	1.1	1.1	1.5
Prenatal care began											
1st Trimester	83.6	83.5	83.4	84.8	86.9	85.6	86.2	86.5	86.8	86.1	86.4
3rd Trimester	1.7	2.0	2.4	1.7	1.6	1.7	1.8	1.7	1.9	2.1	1.4
No Care	1.6	2.1	2.1	1.9	2.1	3.0	2.4	2.1	1.9	2.2	1.7
Prenatal visits											
1-4	4.5	6.2	5.2	5.7	5.8	5.2	5.5	4.7	5.3	4.5	4.5
≥5	87.9	87.5	87.9	90.4	92.0	91.6	92.0	92.9	92.4	92.9	92.5
≥9	68.8	64.7	66.8	69.6	69.7	68.6	70.1	69.8	70.6	74.4	71.5
≥13	31.8	28.5	31.8	29.4	28.1	27.1	31.0	29.9	30.5	34.3	34.6
Medical risks/ Complications¹											
70.6	72.6	69.6	66.2	70.9	66.5	68.6	71.5	71.5	73.2	72.2	
Gestational age²											
Preterm (<37 weeks)	73.2	74.4	72.4	76.8	74.3	74.6	74.0	72.9	71.7	69.5	70.9
Birth weight											
<1,500 grams	15.4	17.3	16.5	14.9	15.8	16.1	15.0	15.7	15.5	13.3	16.7
<1,000 grams	6.9	8.5	7.7	7.1	8.4	7.1	6.2	6.8	6.9	5.7	7.6
Child's sex											
Male	47.5	48.0	49.5	47.2	46.2	47.4	46.9	47.0	46.3	45.4	47.1
Female	52.5	52.0	50.5	52.8	53.8	52.6	53.1	53.0	53.7	54.6	52.9
Plurality											
Multiple births	28.1	29.1	29.6	30.3	28.8	28.7	29.6	30.1	26.7	29.2	29.1
Caesarean delivery											
44.0	45.8	48.1	46.8	47.9	48.4	49.6	53.2	50.5	51.1	50.9	
Place of delivery											
Hospital ³	99.5	99.8	99.5	99.5	99.6	99.5	99.5	99.4	99.7	99.5	99.2
Attendant at birth											
Midwife ⁴	2.2	1.7	1.2	1.4	0.9	0.9	1.2	1.3	1.1	1.1	1.0
Previous live births											
1 or more	55.8	55.2	54.7	54.6	54.3	56.9	57.5	58.3	56.7	58.2	56.2

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-8
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(HISPANIC OR LATINO MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398
Age of mother											
≤19 years	18.9	18.2	17.4	17.5	17.1	17.2	17.0	16.8	16.5	15.6	14.3
≥30 years	22.4	22.9	23.6	24.7	25.6	25.5	26.5	27.5	28.4	29.4	29.8
Marital status											
Unmarried	51.0	52.2	52.7	53.9	54.3	55.4	56.7	56.5	56.9	56.2	56.6
Mother's education											
<9 years	19.7	19.0	19.2	18.8	17.5	16.4	15.4	13.9	12.3	10.7	9.3
Prenatal care began											
1st Trimester	65.3	65.6	65.8	67.0	69.5	70.1	70.5	73.4	74.1	76.6	76.5
3rd Trimester	6.8	6.6	6.2	6.3	5.2	5.1	4.9	4.5	4.4	4.1	4.1
No Care	3.2	3.8	4.8	4.5	3.6	3.6	3.2	2.5	2.9	2.6	2.5
Prenatal visits											
1-4	6.7	6.2	5.7	6.4	5.5	5.2	4.9	4.4	4.5	4.2	4.4
≥5	86.8	88.2	87.4	88.4	90.8	91.0	91.8	93.0	92.4	93.0	92.7
≥9	68.4	69.4	68.5	67.9	70.0	70.3	71.2	73.3	73.4	75.0	76.3
≥13	32.7	32.6	28.9	25.8	22.9	23.9	25.7	26.7	26.3	27.2	28.8
Medical risks/											
 Complications¹											
Complications ¹	41.6	41.0	38.1	39.3	40.5	41.5	41.4	43.7	46.4	48.0	44.2
 Gestational age²											
Preterm (<37 weeks)	9.4	9.4	9.8	10.3	10.1	10.1	9.8	9.9	9.7	9.5	9.1
Birth weight											
<2,500 grams	6.7	6.4	6.9	6.8	6.4	6.9	6.6	6.7	6.6	6.8	6.4
<1,500 grams	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1
Child's sex											
Male	50.8	51.2	51.0	51.2	51.1	51.2	51.4	51.0	51.1	50.5	51.4
Female	49.2	48.8	49.0	48.8	48.9	48.8	48.6	49.0	48.9	49.5	48.6
Plurality											
Multiple births	2.1	2.1	2.3	2.2	2.3	2.4	2.2	2.2	2.2	2.3	2.1
Caesarean delivery											
Caesarean delivery	18.6	19.5	21.1	21.9	23.5	24.0	24.6	25.7	25.8	25.9	26.1
Place of delivery											
Hospital ³	99.8	99.8	99.8	99.7	99.7	99.8	99.7	99.8	99.7	99.7	99.6
Attendant at birth											
Midwife ⁴	7.3	7.0	5.6	5.9	5.2	4.6	4.9	5.6	6.0	5.7	5.3
Previous live births											
1 or more	64.9	65.5	65.5	65.9	66.7	66.0	66.4	67.4	67.2	66.9	66.6

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-9
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(HISPANIC OR LATINO MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of LBW births	2,345	2,325	2,687	2,759	2,710	3,074	3,021	2,866	2,546	2,342	2,075
Age of mother											
≤19 years	23.2	21.4	21.1	18.9	19.6	20.5	19.4	18.7	18.1	17.1	16.6
≥30 years	22.4	23.8	24.4	26.7	26.6	27.0	28.5	29.0	31.7	32.6	29.3
Marital status											
Unmarried	56.6	56.3	57.0	58.0	59.2	58.6	60.2	58.6	58.7	60.6	61.7
Mother's education											
<9 years	20.8	18.8	19.1	18.2	16.8	15.0	15.7	12.2	12.2	9.5	9.3
Prenatal care began											
1st Trimester	64.1	64.9	65.8	67.2	69.5	71.1	69.7	74.8	75.9	76.7	77.2
3rd Trimester	5.4	5.2	4.0	3.9	3.4	3.6	4.0	3.2	2.7	3.2	2.7
No Care	6.6	6.7	7.5	6.5	6.7	6.4	6.0	4.7	5.2	3.9	4.3
Prenatal visits											
1-4	11.3	12.0	10.0	12.5	12.5	11.0	10.7	9.6	9.5	9.2	9.7
≥5	77.3	79.0	79.3	79.9	80.6	82.3	83.1	85.5	85.0	86.2	85.4
≥9	53.4	51.3	52.5	50.9	52.7	53.5	54.4	58.5	58.2	58.7	59.9
≥13	24.0	23.1	22.2	19.9	16.9	18.6	20.7	22.5	21.3	21.4	23.6
Medical risks											
Complications¹	63.9	64.0	58.5	61.1	63.5	62.4	62.2	67.1	69.0	72.8	66.4
Gestational age²											
Preterm (<37 weeks)	69.1	68.4	69.7	71.7	74.3	71.5	71.6	72.0	71.1	70.9	71.4
Birth weight											
<1,500 grams	15.4	16.2	15.7	18.2	18.0	18.2	18.2	16.3	17.1	15.6	16.6
<1,000 grams	7.3	8.8	8.2	9.0	9.4	8.6	9.8	7.4	8.4	7.3	8.9
Child's sex											
Male	48.2	48.3	47.7	48.1	47.1	47.2	49.3	48.9	48.5	47.8	46.7
Female	51.8	51.7	52.3	51.9	52.9	52.8	50.7	51.1	51.5	52.2	53.3
Plurality											
Multiple births	18.8	19.1	18.7	19.5	18.9	19.1	19.5	18.3	18.6	18.8	18.1
Caesarean delivery											
	31.9	33.5	35.3	36.5	38.3	39.8	40.1	41.4	42.6	42.5	44.4
Place of delivery											
Hospital ³	99.8	99.9	99.8	99.7	99.6	99.9	99.7	99.9	99.9	99.9	99.6
Attendant at birth											
Midwife ⁴	3.8	3.4	2.7	2.8	2.5	1.5	2.4	2.9	2.6	3.0	2.4
Previous live births											
1 or more	58.8	60.6	61.4	60.7	60.8	61.2	63.8	62.2	63.0	63.0	62.8

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-10
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366
Age of mother											
≤19 years	19.9	17.0	18.2	16.8	16.5	15.6	14.9	15.3	13.8	13.0	12.8
≥30 years	21.5	25.1	23.9	25.7	25.3	26.2	27.0	26.7	28.2	28.3	30.3
Marital status											
Unmarried	64.2	61.8	62.7	62.0	61.9	62.3	61.9	62.6	62.7	63.1	63.6
Mother's education											
<9 years	2.7	2.5	2.6	3.0	4.8	4.6	4.4	5.0	4.4	5.2	4.3
Prenatal care began											
1st Trimester	73.8	75.2	75.7	75.8	76.6	77.4	76.8	77.6	80.3	81.6	80.4
3rd Trimester	4.1	3.6	4.4	4.4	3.4	2.8	3.7	3.7	2.9	3.3	3.0
No Care	1.6	1.7	3.5	3.3	2.6	2.3	2.7	2.1	1.6	1.7	1.6
Prenatal visits											
1-4	4.5	4.3	4.1	4.6	4.5	4.1	4.4	3.7	3.6	4.1	4.0
≥5	88.2	91.3	89.3	91.0	92.7	93.3	92.8	93.9	94.5	94.0	93.4
≥9	73.1	75.0	74.7	75.2	74.4	74.6	75.0	75.4	78.6	78.4	79.1
≥13	34.7	31.3	31.7	28.5	24.6	26.9	28.2	28.5	29.5	30.4	33.6
Medical risks											
Complications¹	46.1	48.5	46.6	44.1	44.4	44.4	46.4	50.3	53.4	56.0	52.0
Gestational age²											
Preterm (<37 weeks)	14.8	14.0	14.4	14.4	16.4	14.5	14.9	14.0	14.4	12.3	12.7
Birth weight											
<2,500 grams	13.7	11.9	11.7	11.6	12.6	12.7	12.8	11.7	12.8	11.4	12.5
<1,500 grams	2.7	2.5	2.2	2.5	2.5	2.3	2.6	2.6	2.8	2.6	2.5
Child's sex											
Male	49.0	52.0	51.8	51.3	50.5	50.8	51.8	52.4	52.0	50.8	50.5
Female	51.0	48.0	48.2	48.7	49.5	49.2	48.2	47.6	48.0	49.2	49.5
Plurality											
Multiple births	4.7	3.3	3.8	3.4	3.1	3.8	3.6	4.1	4.2	3.3	3.6
Caesarean delivery											
	22.4	24.2	25.5	25.8	27.4	29.1	30.3	30.5	30.9	30.7	31.1
Place of delivery											
Hospital ³	99.0	99.6	99.2	99.3	99.5	99.3	99.6	99.4	99.6	99.5	99.3
Attendant at birth											
Midwife ⁴	5.0	3.8	3.4	3.5	3.0	2.6	2.4	3.4	3.2	3.4	2.7
Previous live births											
1 or more	62.8	62.3	61.4	63.5	62.3	61.4	63.2	62.7	62.8	62.8	63.0

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-11
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of LBW births	392	327	354	373	435	489	532	503	559	492	546
Age of mother											
≤19 years	17.9	18.0	16.9	18.0	16.8	17.0	15.8	16.7	13.8	17.5	13.7
≥30 years	28.0	29.1	24.6	26.8	26.7	29.2	28.2	31.8	30.6	27.6	33.5
Marital status											
Unmarried	68.3	67.0	68.1	68.4	65.7	66.1	66.4	65.2	69.8	72.2	67.9
Mother's education											
<9 years	2.4	1.8	2.5	2.1	6.2	4.3	5.5	4.4	3.2	4.3	2.9
Prenatal care began											
1st Trimester	69.9	74.0	74.0	72.1	75.6	75.9	77.4	77.7	79.4	82.5	80.0
3rd Trimester	2.4	2.8	5.4	3.5	2.3	1.6	3.4	3.4	2.5	1.6	3.1
No Care	4.5	4.6	5.9	6.7	4.4	3.5	3.6	4.4	4.1	2.4	2.4
Prenatal visits											
1-4	9.3	6.7	9.3	9.4	9.0	9.4	9.0	6.8	7.3	9.3	9.5
≥5	76.8	84.7	79.7	82.3	85.5	86.7	87.4	88.5	88.0	87.8	86.3
≥9	57.6	56.9	56.8	59.5	57.7	60.9	60.0	62.0	64.0	60.4	64.1
≥13	29.1	22.3	28.8	24.1	23.4	21.3	22.9	21.3	23.8	26.6	29.3
Medical risks											
Complications¹	67.2	65.1	59.3	61.7	64.1	63.0	67.7	68.4	72.8	74.0	68.7
Gestational age²											
Preterm (<37 weeks)	69.1	68.5	70.1	71.6	74.3	70.6	70.1	71.6	72.1	68.9	65.6
Birth weight											
<1,500 grams	19.4	21.4	18.4	21.7	20.0	18.2	20.3	22.1	22.2	23.0	20.0
<1,000 grams	12.5	12.8	11.6	10.5	11.0	9.8	10.2	13.1	10.9	12.6	10.8
Child's sex											
Male	43.5	48.9	49.4	47.5	47.1	45.2	47.9	49.7	49.7	42.3	46.0
Female	56.5	51.1	50.6	52.5	52.9	54.6	52.1	50.3	50.3	57.7	54.0
Plurality											
Multiple births	25.1	18.7	19.5	20.1	14.5	18.2	18.6	19.1	22.0	19.7	17.8
Caesarean delivery	34.4	38.5	34.7	36.2	39.3	37.4	43.0	44.9	45.6	43.9	43.4
Place of delivery											
Hospital ³	99.7	100.0	99.7	98.7	100.0	99.6	100.0	99.8	99.6	99.4	99.8
Attendant at birth											
Midwife ⁴	2.1	1.8	2.3	1.6	1.1	1.0	1.1	2.0	1.3	2.0	2.6
Previous live births											
1 or more	66.4	64.8	64.7	63.5	59.8	62.8	64.5	62.8	61.4	59.3	62.5

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-12
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830
Age of mother											
≤19 years	19.0	18.7	19.4	18.7	19.1	19.1	20.1	18.6	19.0	17.0	16.9
≥30 years	24.3	25.8	23.8	24.9	25.4	23.6	24.0	24.0	23.8	24.1	25.0
Marital status											
Unmarried	70.1	69.7	72.4	73.1	72.9	74.8	75.9	75.8	76.9	77.7	77.1
Mother's education											
<9 years	4.1	3.9	3.8	3.9	3.5	3.5	3.0	3.2	2.8	2.8	2.5
Prenatal care began											
1st Trimester	64.6	64.4	68.8	69.0	67.9	65.9	65.9	65.1	66.0	69.4	68.6
3rd Trimester	6.8	7.1	6.0	5.6	6.6	7.0	6.6	7.8	7.4	6.2	6.1
No Care	1.9	2.6	2.4	3.0	3.0	3.5	3.2	3.1	2.1	2.3	2.5
Prenatal visits											
1-4	9.7	9.8	9.3	9.0	9.6	9.7	8.8	9.3	8.6	8.8	9.0
≥5	85.5	85.6	85.7	87.0	87.3	86.5	87.7	87.4	88.9	88.5	87.8
≥9	60.3	61.2	60.9	62.5	63.3	60.5	61.2	59.9	61.5	64.0	62.8
≥13	20.3	19.0	20.4	20.6	19.5	18.3	19.4	18.7	17.9	18.8	19.7
Medical risks/ Complications¹	54.4	55.4	51.4	55.7	55.1	56.5	57.2	54.8	54.3	55.3	53.8
Gestational age²											
Preterm (<37 weeks)	10.1	9.6	9.8	10.9	10.6	11.7	10.4	9.8	9.6	10.6	9.0
Birth weight											
<2,500 grams	7.3	6.5	6.8	7.2	7.3	7.4	6.6	6.7	6.4	7.0	6.9
<1,500 grams	1.0	0.9	0.9	0.9	1.1	1.1	1.0	1.1	0.9	1.2	1.3
Child's sex											
Male	50.0	50.4	49.5	51.2	50.9	50.0	50.2	50.1	50.4	50.4	50.7
Female	50.0	49.6	50.5	48.8	49.1	50.0	49.8	49.9	49.6	49.6	49.3
Plurality											
Multiple births	1.5	1.8	1.7	1.7	1.9	1.8	1.4	1.5	1.6	1.8	1.5
Caesarean delivery	16.7	18.4	19.2	19.4	20.6	22.4	22.9	23.1	23.2	22.9	23.1
Place of delivery											
Hospital ³	99.4	99.6	99.5	99.6	99.5	99.6	99.7	99.7	99.7	99.6	99.6
Attendant at birth											
Midwife ⁴	31.4	33.0	31.5	32.3	31.6	28.8	29.3	28.0	27.6	28.6	27.9
Previous live births											
1 or more	68.1	67.9	66.8	67.2	67.5	68.1	66.5	66.9	66.6	67.3	66.5

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-13
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of LBW births	392	359	402	441	460	473	426	428	396	406	403
Age of mother											
≤19 years	20.4	16.2	15.2	18.6	19.6	19.2	22.8	16.8	18.2	15.3	18.9
≤30 years	28.6	33.4	31.6	28.3	29.8	28.5	28.4	26.6	28.8	29.6	26.8
Marital status											
Unmarried	71.7	70.5	72.9	74.6	73.3	76.5	75.8	80.1	79.3	75.4	81.1
Mother's education											
<9 years	4.3	4.2	6.0	4.5	3.9	4.2	2.1	4.4	2.5	3.0	2.0
Prenatal care began											
1st Trimester	63.3	61.6	65.2	67.1	67.0	63.0	67.4	66.8	65.2	69.7	70.0
3rd Trimester	3.8	4.7	5.7	3.2	4.8	7.0	5.4	6.8	5.8	4.2	4.0
No Care	4.8	9.2	7.5	5.9	8.5	9.5	8.5	7.5	4.3	6.7	6.7
Prenatal visits											
1-4	16.8	14.2	13.2	13.8	13.0	15.0	11.5	16.4	12.1	13.5	11.4
≥5	72.2	71.9	76.6	78.9	77.4	74.8	79.6	75.7	81.8	78.8	79.7
≥9	43.9	44.0	45.5	50.8	50.2	44.4	46.2	44.6	52.0	47.8	47.4
≥13	17.3	14.8	17.4	16.3	15.4	11.4	15.7	16.6	16.9	15.5	13.9
Medical risks/ Complications¹	79.8	77.4	72.9	71.7	72.8	74.8	69.7	66.1	69.4	74.4	65.5
Gestational age²											
Preterm (<37 weeks)	71.2	70.5	69.7	68.5	70.2	74.2	71.8	71.7	69.7	74.9	69.0
Birth weight											
<1,500 grams	14.1	14.2	13.2	12.7	15.2	15.4	15.3	16.8	14.4	16.7	18.4
<1,000 grams	6.4	7.8	6.2	5.2	6.5	5.5	7.5	7.9	8.1	7.4	9.2
Child's sex											
Male	46.2	51.8	49.0	53.7	51.3	52.0	46.0	45.6	48.2	54.9	46.4
Female	53.8	48.2	51.0	46.3	48.7	48.0	54.0	54.4	51.8	45.1	53.6
Plurality											
Multiple births	9.7	11.7	15.2	13.2	11.7	13.5	11.3	13.3	13.1	15.5	11.7
Caesarean delivery	33.9	39.3	38.3	36.5	36.5	39.3	40.1	39.3	39.4	44.6	34.5
Place of delivery											
Hospital ³	99.2	99.2	99.3	99.8	98.9	99.8	99.8	99.8	99.5	99.8	99.5
Attendant at birth											
Midwife ⁴	15.8	14.8	15.9	16.1	13.3	11.8	14.3	10.7	11.1	11.1	10.7
Previous live births											
1 or more	67.1	62.7	64.4	62.4	66.5	68.1	59.9	66.4	64.1	67.2	64.3

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-14
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(ASIAN OR OTHER PACIFIC ISLANDER MOTHERS)**

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of births	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505
Age of mother											
≤19 years	4.9	4.2	4.2	3.5	3.4	2.9	3.0	3.3	2.6	3.1	3.2
≥30 years	48.3	49.5	51.6	52.8	52.7	53.7	53.9	55.9	55.6	55.9	57.4
Marital status											
Unmarried	17.0	15.5	16.3	15.8	17.0	16.2	17.6	17.4	15.8	17.4	17.3
Mother's education											
<9 years	2.6	1.5	2.2	2.4	1.8	2.4	1.6	2.3	2.2	3.3	3.1
Prenatal care began											
1st Trimester	82.7	84.3	84.2	84.7	86.3	86.1	86.5	86.4	88.1	88.1	86.5
3rd Trimester	2.4	2.0	2.6	3.1	1.9	2.1	2.1	3.1	1.9	2.3	2.3
No Care	1.1	1.1	1.6	1.5	1.0	1.2	1.5	1.3	1.3	1.2	1.0
Prenatal visits											
1-4	2.4	2.2	2.9	2.9	2.5	2.0	1.8	2.4	2.1	1.9	2.3
≥5	94.6	94.4	92.5	94.9	96.4	96.5	96.6	96.2	96.4	96.7	96.2
≥9	82.1	81.9	80.5	82.3	84.1	82.7	83.9	83.2	85.6	86.7	84.2
≥13	29.6	27.8	26.2	24.6	25.8	30.3	35.3	33.5	35.6	36.0	37.9
Medical risks/ Complications¹	45.0	44.7	44.8	47.1	45.0	43.5	45.4	46.4	48.1	51.5	47.4
Gestational age²											
Preterm (<37 weeks)	9.8	11.0	10.8	11.0	10.2	10.4	9.6	10.0	10.0	9.9	9.0
Birth weight											
<2,500 grams	7.7	8.6	8.5	8.0	8.0	8.5	8.0	9.1	8.8	8.5	8.3
<1,500 grams	0.9	1.2	1.5	1.1	1.2	1.1	1.0	1.5	1.5	1.4	1.1
Child's sex											
Male	49.9	50.4	50.8	52.5	50.7	52.2	53.2	51.3	51.7	50.7	52.4
Female	50.1	49.6	49.2	47.5	49.3	47.8	46.8	48.7	48.3	49.3	47.6
Plurality											
Multiple births	1.7	3.9	3.2	2.4	2.0	2.7	2.3	3.6	2.9	2.5	3.3
Caesarean delivery	23.8	16.2	25.6	26.5	28.1	30.5	30.0	32.0	32.6	32.8	33.0
Place of delivery											
Hospital ³	99.4	99.1	99.2	99.3	99.5	99.4	99.5	99.4	99.4	99.6	99.3
Attendant at birth											
Midwife ⁴	4.0	2.8	2.9	2.8	2.3	2.1	1.7	2.7	3.0	2.8	3.1
Previous live births											
1 or more	53.0	52.4	53.0	53.8	54.4	53.3	54.5	52.9	54.8	55.5	54.6

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-15
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2001-2011
(ASIAN OR OTHER PACIFIC ISLANDER MOTHERS)

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of LBW births	163	197	215	210	223	268	272	311	299	280	292
Age of mother											
≤19 years	6.1	6.6	1.4	6.2	3.6	1.1	2.2	3.5	3.3	5.4	5.1
≤30 years	48.5	52.3	60.5	51.9	50.2	53.7	55.5	59.5	54.8	52.1	58.6
Marital status											
Unmarried	18.4	21.8	14.4	20.0	22.4	18.7	16.9	21.5	20.4	18.9	18.2
Mother's education											
<9 years	1.8	1.5	2.3	1.9	1.3	3.0	1.1	2.6	1.7	3.2	4.1
Prenatal care began											
1st Trimester	82.8	86.8	83.7	87.6	83.9	87.7	83.8	82.6	87.0	84.3	83.9
3rd Trimester	0.6	1.0	1.9	2.4	3.6	1.5	1.5	3.5	3.0	2.9	2.1
No Care	3.1	4.6	3.3	1.9	2.7	3.0	3.7	4.2	2.0	1.4	2.7
Prenatal visits											
1-4	6.1	3.0	5.6	6.7	7.2	3.7	4.0	7.7	7.4	6.8	4.8
≥5	89.0	86.3	87.0	90.0	89.7	92.9	92.3	88.1	90.0	91.4	92.5
≥9	71.8	65.3	66.5	67.1	67.3	68.7	67.6	69.8	72.6	70.7	72.9
≥13	23.9	29.4	31.2	19.0	22.4	22.8	29.4	34.1	34.4	27.1	30.8
Medical risks/											
Complications¹											
65.0	63.5	55.8	59.5	67.7	67.9	66.5	61.1	70.2	74.3	68.8	
Gestational age²											
Preterm (<37 weeks)	73.6	82.7	69.3	60.0	65.9	67.2	68.0	60.5	66.2	65.4	64.7
Birth weight											
<1,500 grams	11.7	13.7	18.1	13.8	15.7	13.4	12.9	16.1	17.4	16.4	12.7
<1,000 grams	4.3	6.6	7.4	9.0	5.8	5.2	4.8	9.3	8.7	7.9	6.2
Child's sex											
Male	50.9	49.2	46.0	45.7	47.1	49.3	47.4	51.8	50.2	45.0	46.9
Female	49.1	50.8	54.0	54.3	52.9	50.7	52.6	48.2	49.8	55.0	53.1
Plurality											
Multiple births	12.9	30.5	28.4	21.4	19.7	19.0	21.7	26.7	22.4	18.9	25.7
Caesarean delivery											
35.6	40.1	47.9	38.1	46.6	44.4	40.4	49.8	51.5	45.4	51.4	
Place of delivery											
Hospital ³	100.0	99.5	100.0	100.0	100.0	100.0	100.0	99.7	100.0	100.0	99.7
Attendant at birth											
Midwife ⁴	1.2	0.5	0.5	1.4	0.4	1.9	1.1	2.6	1.7	1.1	0.3
Previous live births											
1 or more	47.2	44.2	47.9	51.4	55.6	50.0	47.1	51.8	48.8	49.6	55.5

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center, or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2001-2011**

Weight in grams	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Under 1000, total	437	520	510	531	579	559	589	538	523	439	496
Single	346	396	393	434	452	413	450	419	431	346	379
Plural	91	124	117	97	127	146	139	119	92	93	117
1,000-1,499, total	486	462	514	569	540	670	634	618	577	505	505
Single	362	334	369	426	404	469	452	431	420	386	374
Plural	124	128	144	143	136	201	182	187	157	119	131
1,500-1,999, total	1,179	1,151	1,295	1,309	1,254	1,425	1,362	1,360	1,211	1,194	1,131
Single	796	808	913	882	909	979	935	944	835	823	794
Plural	383	343	382	427	345	446	427	416	376	371	337
2,000-2,499, total	3,841	3,793	4,108	4,295	4,267	4,612	4,700	4,510	4,262	4,017	3,817
Single	3,099	3,014	3,243	3,370	3,397	3,771	3,762	3,598	3,432	3,178	3,043
Plural	742	779	863	925	870	841	938	912	830	839	774
2,500-3,999, total	71,936	74,047	76,777	79,390	81,676	86,943	87,739	84,904	79,423	74,680	72,777
Single	71,009	73,035	75,685	78,324	80,530	85,755	86,631	83,674	78,297	73,596	71,741
Plural	927	1,012	1,063	1,066	1,146	1,188	1,108	1,230	1,126	1,084	1,036
4,000 and over, total	7,297	7,364	7,439	7,269	7,463	7,821	7,635	7,268	6,601	6,197	6,452
Single	7,295	7,363	7,434	7,266	7,462	7,817	7,634	7,267	6,601	6,194	6,450
Plural	2	1	2	3	1	4	1	1	0	3	2
All weights, total ¹	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190
Single	82,943	84,984	88,167	90,732	93,173	99,216	99,889	96,347	90,034	84,535	82,793
Plural	2,270	2,395	2,581	2,663	2,625	2,830	2,798	2,868	2,582	2,509	2,397

¹ Includes records with unknown weight and/or plurality.

**TABLE 1B-17
RESIDENT BIRTHS BY MONTH OF OCCURRENCE, ARIZONA, 2001-2011**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2001	7,232	6,481	7,132	6,516	6,792	6,660	7,367	7,807	7,458	7,377	7,083	7,308	85,213
Percent	8.5	7.6	8.4	7.6	8.0	7.8	8.6	9.2	8.8	8.7	8.3	8.6	100.0
2002	7,194	6,499	7,123	6,739	7,076	6,960	7,506	7,908	7,962	7,778	7,088	7,546	87,379
Percent	8.2	7.4	8.2	7.7	8.1	8.0	8.6	9.1	9.1	8.9	8.1	8.6	100.0
2003	7,526	6,842	7,285	7,105	7,375	7,096	7,932	8,209	8,207	8,068	7,221	7,917	90,783
Percent	8.3	7.5	8.0	7.8	8.1	7.8	8.7	9.0	9.0	8.9	8.0	8.7	100.0
2004	7,570	7,191	7,742	7,196	7,231	7,305	8,005	8,174	8,585	8,346	8,014	8,037	93,396
Percent	8.1	7.7	8.3	7.7	7.7	7.8	8.6	8.8	9.2	8.9	8.6	8.6	100.0
2005	7,700	7,146	7,946	7,515	7,583	7,802	8,286	8,746	8,712	8,058	7,926	8,378	95,798
Percent	8.0	7.5	8.3	7.8	7.9	8.1	8.6	9.1	9.1	8.4	8.3	8.7	100.0
2006	8,089	7,614	8,371	7,724	8,088	8,311	8,897	9,265	9,166	9,140	8,618	8,759	102,042
Percent	7.9	7.5	8.2	7.6	7.9	8.1	8.7	9.1	9.0	9.0	8.4	8.6	100.0
2007	8,659	7,721	8,324	7,885	8,207	8,341	9,011	9,396	9,077	9,101	8,388	8,577	102,687
Percent	8.4	7.5	8.1	7.7	8.0	8.1	8.8	9.2	8.8	8.9	8.2	8.4	100.0
2008	8,656	8,158	8,094	7,694	8,124	7,677	8,783	8,779	8,760	8,411	7,740	8,339	99,215
Percent	8.7	8.2	8.2	7.8	8.2	7.7	8.9	8.8	8.8	8.5	7.8	8.4	100.0
2009	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728	92,616
Percent	8.4	7.9	8.7	8.0	8.1	8.0	8.7	8.8	8.7	8.5	7.8	8.3	100.0
2010	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	* 87,053
Percent	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
2011	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
Percent	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0

* Includes 7 records where month of birth is missing.

**TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2011**

TOTAL	Month of birth												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL	85,190	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039
1	2,872	167	277	244	229	157	267	268	238	287	192	300	246
2	2,836	141	252	266	185	244	272	176	295	276	185	275	269
3	2,759	232	253	260	153	256	235	156	264	232	261	262	195
4	2,744	240	239	243	234	238	205	180	260	198	272	251	184
5	2,698	271	216	187	250	228	168	224	266	200	256	196	236
6	2,786	270	176	179	229	230	241	276	197	272	298	164	254
7	2,884	247	223	254	251	189	221	308	160	294	257	229	251
8	2,924	186	281	272	265	142	266	273	262	295	198	253	231
9	2,810	173	231	289	183	237	272	208	273	287	161	242	254
10	2,761	246	246	247	140	254	275	198	291	222	243	234	165
11	2,911	270	261	253	231	248	189	243	292	191	258	322	153
12	2,825	250	189	199	246	258	184	254	280	262	267	195	241
13	2,658	265	180	173	213	242	212	230	195	297	258	157	236
14	2,903	245	251	238	239	184	246	267	171	299	258	243	262
15	2,910	195	271	248	247	147	275	248	269	276	185	267	282
16	2,750	160	255	240	134	224	289	210	262	290	196	236	254
17	2,759	233	271	230	143	235	263	175	265	225	252	275	192
18	2,774	263	238	218	241	227	211	255	258	179	260	246	178
19	2,803	254	180	194	271	218	154	261	251	275	280	202	263
20	2,840	275	184	162	268	269	227	263	202	279	276	175	260
21	2,855	273	231	245	233	174	263	262	190	262	240	234	248
22	2,922	182	290	262	217	164	276	279	236	272	205	274	265
23	2,709	172	246	262	173	223	248	174	275	289	190	235	222
24	2,621	259	232	247	149	250	255	165	264	220	258	167	155
25	2,744	285	239	267	239	243	205	233	251	181	262	210	129
26	2,746	239	191	195	250	239	165	274	282	269	283	186	173
27	2,774	275	162	181	224	245	239	266	220	277	261	184	240
28	2,901	255	235	243	251	189	257	266	182	269	248	235	271
29	2,597	170		245	242	159	241	258	268	267	206	274	267
30	2,519	166		262	168	169	265	209	265	308	181	264	262
31	1,595	268		249	196	196	163	163	304		214		201

**TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2011**

Father's age group	Mother's age group										
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	TOTAL
<15	5	8	1	1	1	0	0	0	0	0	16
15-17	25	462	164	37	2	1	0	0	0	0	691
18-19	9	609	1,324	520	25	9	2	2	0	0	2,500
20-24	0	423	2,317	8,719	1,569	278	77	14	0	0	13,397
25-29	0	49	406	6,315	10,617	2,231	404	68	0	0	20,090
30-34	0	11	122	1,717	7,055	8,720	1,539	144	5	0	19,313
35-39	0	3	28	452	1,913	4,882	3,732	410	9	0	11,429
40-44	0	1	11	190	593	1,389	1,944	771	39	2	4,940
45-49	0	1	4	62	173	318	532	342	43	0	1,475
50-54	0	0	2	25	59	130	176	107	24	0	523
55+	0	0	1	14	24	47	78	40	8	1	213
Unknown	62	880	1,507	3,701	2,220	1,363	669	192	9	0	10,603
TOTAL	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3	85,190

**TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2011**

Father's race/ethnicity	Mother's race/ethnicity								
	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Pacific Islander	Other race	Un-known	Total
White non-Hispanic	29,020	3,579	393	364	925	25	32	259	34,597
Hispanic or Latino	3,972	22,183	236	685	253	14	4	79	27,426
Black or African American	1,105	847	2,448	154	111	4	3	14	4,686
American Indian or Alaska Native	341	324	29	3,384	30	1	2	11	4,122
Asian	542	207	26	43	1,976	11	2	14	2,821
Native Hawaiian or other Pacific Islander	25	13	0	5	3	8	0	0	54
Other race	282	18	18	31	15	3	32	1	400
Unknown	3,007	5,227	1,216	1,164	121	5	13	331	11,084
TOTAL	38,294	32,398	4,366	5,830	3,434	71	88	709	85,190

**TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2011**

Father's education	Mother's education							TOTAL
	<8	8	9-11	12	13-16	17+	Unknown	
<8	939	155	657	474	230	40	7	2,502
8	121	211	314	357	118	12	4	1,137
9-11	430	298	4,083	3,078	1,367	87	26	9,369
12	323	314	3,388	12,895	6,943	842	104	24,809
13-16	169	79	882	4,466	17,499	3,435	74	26,604
17+	31	6	69	587	3,720	4,111	29	8,553
Unknown	373	460	3,452	4,239	2,435	267	990	12,216
TOTAL	2,386	1,523	12,845	26,096	32,312	8,794	1,234	85,190

**TABLE 1B-22
RESIDENT BIRTHS BY MOTHER'S RACE AND HISPANIC OR LATINO ORIGIN BY YEAR, ARIZONA, 2001-2011**

Mother's race/ethnicity	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total resident births, all groups	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190
White non-Hispanic or Latino	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294
Hispanic or Latino, total	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398
Mexican	33,929	34,886	37,322	38,823	39,946	42,870	43,587	40,004	36,680	32,374	30,954
Puerto Rican	259	251	273	297	321	254	388	327	351	316	400
Cuban	57	68	63	53	66	65	93	80	81	87	104
Other Central or South American	697	725	784	875	1,013	1,212	1,204	1,124	981	971	940
Other Hispanic	161	159	659	774	810	461	459	1,104	269	585	0
Black or African American	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366
American Indian or Alaska Native	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830
Asian and Pacific Islander, total	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505
Chinese	140	155	156	165	170	198	188	192	160	165	159
Japanese	64	67	71	50	68	75	65	52	51	48	52
Hawaiian	34	46	63	61	59	53	67	68	57	56	71
Filipino	264	288	327	318	348	354	429	372	368	383	351
Other Asian and Pacific Islander	1,602	1,725	1,907	2,020	2,160	2,456	2,663	2,741	2,760	2,641	2,872
Unknown (incl. unspecified other)	996	1,892	1,413	1,353	1,437	803	755	563	529	507	797

**TABLE 1B-23
TOTAL BIRTHS, BIRTHS, AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS,
AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2011**

		TOTAL	Mother's age group										
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
All race/ ethnic groups*	Married	Count	46,532	1	128	778	7,740	15,159	14,331	6,806	1,478	108	3
		Percent	54.6%	1.0%	5.2%	13.2%	35.6%	62.5%	74.0%	74.4%	70.7%	78.8%	100.0%
	Unmarried	Count	37,780	100	2,317	5,095	13,799	8,831	4,810	2,230	572	26	0
		Percent	44.3%	99.0%	94.7%	86.5%	63.4%	36.4%	24.8%	24.4%	27.4%	19.0%	0.0%
	Other**	Count	878	0	2	14	214	261	227	117	40	3	0
		Percent	1.0%	0.0%	0.1%	0.2%	1.0%	1.1%	1.2%	1.3%	1.9%	2.2%	0.0%
	TOTAL	Count	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
White non- Hispanic	Married	Count	26,667	0	38	271	3,923	9,048	8,645	3,848	835	59	0
		Percent	69.6%	0.0%	7.7%	17.1%	47.6%	75.1%	84.5%	84.2%	78.8%	85.5%	0.0%
	Unmarried	Count	11,283	13	455	1,303	4,195	2,888	1,501	701	217	10	0
		Percent	29.5%	100.0%	92.1%	82.4%	50.9%	24.0%	14.7%	15.3%	20.5%	14.5%	0.0%
	Other	Count	344	0	1	8	116	110	79	23	7	0	0
		Percent	0.9%	0.0%	0.2%	0.5%	1.4%	0.9%	0.8%	0.5%	0.7%	0.0%	0.0%
	TOTAL	Count	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Hispanic or Latino	Married	Count	13,675	1	81	426	3,013	4,231	3,665	1,837	398	23	0
		Percent	42.2%	1.6%	5.5%	13.7%	31.1%	50.3%	60.9%	62.1%	60.1%	76.7%	0.0%
	Unmarried	Count	18,349	60	1,385	2,672	6,602	4,076	2,258	1,052	239	5	0
		Percent	56.6%	98.4%	94.4%	86.1%	68.2%	48.4%	37.5%	35.6%	36.1%	16.7%	0.0%
	Other	Count	374	0	1	5	71	106	97	67	25	2	0
		Percent	1.2%	0.0%	0.1%	0.2%	0.7%	1.3%	1.6%	2.3%	3.8%	6.7%	0.0%
	TOTAL	Count	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Black or African American	Married	Count	1,535	0	4	18	247	505	449	257	53	2	0
		Percent	35.2%	0.0%	2.6%	4.5%	18.5%	44.0%	54.9%	62.7%	60.2%	33.3%	0.0%
	Unmarried	Count	2,777	10	148	381	1,078	623	358	143	32	4	0
		Percent	63.6%	100.0%	97.4%	95.5%	80.8%	54.2%	43.8%	34.9%	36.4%	66.7%	0.0%
	Other	Count	54	0	0	0	9	21	11	10	3	0	0
		Percent	1.2%	0.0%	0.0%	0.0%	0.7%	1.8%	1.3%	2.4%	3.4%	0.0%	0.0%
	TOTAL	Count	4,366	10	152	399	1,334	1,149	818	410	88	6	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
American Indian or Alaska Native	Married	Count	1,254	0	3	28	267	404	318	196	38	0	0
		Percent	21.5%	0.0%	1.0%	4.1%	13.9%	27.6%	35.4%	42.5%	41.8%	0.0%	0.0%
	Unmarried	Count	4,495	14	290	652	1,645	1,040	549	254	48	3	0
		Percent	77.1%	100.0%	99.0%	95.9%	85.5%	71.0%	61.1%	55.1%	52.7%	75.0%	0.0%
	Other	Count	81	0	0	0	12	20	32	11	5	1	0
		Percent	1.4%	0.0%	0.0%	0.0%	0.6%	1.4%	3.6%	2.4%	5.5%	25.0%	0.0%
	TOTAL	Count	5,830	14	293	680	1,924	1,464	899	461	91	4	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Asian	Married	Count	2,848	0	2	23	223	814	1,099	570	109	8	0
		Percent	82.9%	0.0%	8.3%	28.4%	57.6%	85.4%	90.8%	89.8%	82.6%	88.9%	0.0%
	Unmarried	Count	572	2	22	57	162	137	107	61	23	1	0
		Percent	16.7%	100.0%	91.7%	70.4%	41.9%	14.4%	8.8%	9.6%	17.4%	11.1%	0.0%
	Other	Count	14	0	0	1	2	2	5	4	0	0	0
		Percent	0.4%	0.0%	0.0%	1.2%	0.5%	0.2%	0.4%	0.6%	0.0%	0.0%	0.0%
	TOTAL	Count	3,434	2	24	81	387	953	1,211	635	132	9	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Hawaiian or Pacific Islander	Married	Count	36	0	0	2	3	17	8	6	0	0	0
		Percent	50.7%	0.0%	0.0%	100.0%	20.0%	60.7%	57.1%	66.7%	0.0%	0.0%	0.0%
	Unmarried	Count	33	0	2	0	11	11	6	2	1	0	0
		Percent	46.5%	100.0%	100.0%	0.0%	73.3%	39.3%	42.9%	22.2%	100.0%	0.0%	0.0%
	Other	Count	2	0	0	0	1	0	0	1	0	0	0
		Percent	2.8%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%
	TOTAL	Count	71	0	2	2	15	28	14	9	1	0	0
		Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%
Other race	Married	Count	56	0	0	1	4	23	17	10	1	0	0
		Percent	63.6%	0.0%	0.0%	16.7%	21.1%	85.2%	81.0%	100.0%	100.0%	0.0%	0.0%
	Unmarried	Count	31	0	4	5	14	4	4	0	0	0	0
		Percent	35.2%	0.0%	100.0%	83.3%	73.7%	14.8%	19.0%	0.0%	0.0%	0.0%	0.0%
	Other	Count	1	0	0	0	1	0	0	0	0	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	TOTAL	Count	88	0	4	6	19	27	21	10	1	0	0
		Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%
Unknown	Married	Count	461	0	0	9	60	117	130	82	44	16	3
		Percent	65.0%	0.0%	0.0%	26.5%	39.0%	68.4%	81.2%	82.0%	78.6%	84.2%	100.0%
	Unmarried	Count	240	1	11	25	92	52	27	17	12	3	0
		Percent	33.9%	100.0%	100.0%	73.5%	59.7%	30.4%	16.9%	17.0%	21.4%	15.8%	0.0%
	Other	Count	8	0	0	0	2	2	3	1	0	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	1.3%	1.2%	1.9%	1.0%	0.0%	0.0%	0.0%
	TOTAL	Count	709	1	11	34	154	171	160	100	56	19	3
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Includes records with unknown race/ethnicity.
** May include the following: "Refused", "Yes, divorced", and "Unknown".

**TABLE 1B-24
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF
PREVIOUS LIVE BIRTHS, ARIZONA, 2011**

	TOTAL	Mother's age group										
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
All race/ ethnic groups	TOTAL	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3
	None	31,559	100	2,222	4,461	10,002	7,845	4,700	1,791	409	29	0
	1	25,215	1	212	1,192	7,374	7,683	5,747	2,474	500	31	1
	2	15,175	0	9	204	3,106	5,023	4,344	2,031	432	25	1
	3	7,416	0	1	18	905	2,265	2,593	1,327	292	14	1
	4 or more	5,491	0	1	2	284	1,339	1,901	1,483	444	37	0
	Unknown	334	0	2	10	82	96	83	47	13	1	0
White non- Hispanic	TOTAL	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0
	None	15,514	13	461	1,318	4,464	4,743	3,065	1,167	265	18	0
	1	11,844	0	31	231	2,606	3,940	3,279	1,437	305	15	0
	2	6,236	0	0	29	887	2,169	2,000	930	208	13	0
	3	2,810	0	0	3	202	811	1,145	524	117	8	0
	4 or more	1,784	0	1	0	52	352	709	495	161	14	0
	Unknown	106	0	1	1	23	31	27	19	3	1	0
Hispanic or Latino	TOTAL	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0
	None	10,678	61	1,315	2,233	3,915	1,889	880	312	68	5	0
	1	9,350	0	145	721	3,532	2,701	1,530	597	117	7	0
	2	6,521	0	5	133	1,584	2,144	1,712	781	158	4	0
	3	3,322	0	1	11	461	1,023	1,095	596	132	3	0
	4 or more	2,386	0	0	1	150	617	774	653	180	11	0
	Unknown	141	0	1	4	44	39	29	17	7	0	0
Black or African American	TOTAL	4,366	10	152	399	1,334	1,149	818	410	88	6	0
	None	1,591	10	145	309	568	313	154	69	21	2	0
	1	1,168	0	7	74	438	332	215	85	17	0	0
	2	793	0	0	14	226	241	204	91	16	1	0
	3	389	0	0	1	70	139	105	59	14	1	0
	4 or more	399	0	0	0	27	119	131	100	20	2	0
	Unknown	26	0	0	1	5	5	9	6	0	0	0
American Indian or Alaska Native	TOTAL	5,830	14	293	680	1,924	1,464	899	461	91	4	0
	None	1,929	13	264	506	735	262	91	50	8	0	0
	1	1,450	1	25	146	631	396	178	66	7	0	0
	2	1,038	0	4	21	355	336	219	90	12	1	0
	3	682	0	0	3	155	251	177	81	15	0	0
	4 or more	707	0	0	1	45	210	227	172	49	3	0
	Unknown	24	0	0	3	3	9	7	2	0	0	0
Asian	TOTAL	3,434	2	24	81	387	953	1,211	635	132	9	0
	None	1,558	2	21	67	242	567	454	167	36	2	0
	1	1,189	0	3	11	110	256	504	261	42	2	0
	2	444	0	0	3	29	89	168	123	29	3	0
	3	135	0	0	0	4	25	47	49	10	0	0
	4 or more	97	0	0	0	2	12	33	34	14	2	0
	Unknown	11	0	0	0	0	4	5	1	1	0	0
Native Hawaiian or Pacific Islander	TOTAL	71	0	2	2	15	28	14	9	1	0	0
	None	23	0	2	2	5	8	4	2	0	0	0
	1	17	0	0	0	5	8	1	3	0	0	0
	2	13	0	0	0	3	7	3	0	0	0	0
	3	7	0	0	0	1	1	3	2	0	0	0
	4 or more	11	0	0	0	1	4	3	2	1	0	0
Other race	TOTAL	88	0	4	6	19	27	21	10	1	0	0
	None	38	0	4	3	11	10	7	3	0	0	0
	1	22	0	0	2	2	9	6	2	1	0	0
	2	22	0	0	1	5	7	5	4	0	0	0
	3	6	0	0	0	1	1	3	1	0	0	0
	4 or more	0	0	0	0	0	0	0	0	0	0	0
Unknown	TOTAL	709	1	11	34	154	171	160	100	56	19	3
	None	228	1	10	23	62	53	45	21	11	2	0
	1	175	0	1	7	50	41	34	23	11	7	1
	2	108	0	0	3	17	30	33	12	9	3	1
	3	65	0	0	0	11	14	18	15	4	2	1
	4 or more	107	0	0	0	7	25	24	27	19	5	0
	Unknown	26	0	0	1	7	8	6	2	2	0	0

Note: Totals include records with unknown number of previous live births.

**TABLE 1B-25
CHANGES FROM 2001 TO 2011 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
BY AREA AND RACE/ETHNICITY**

Characteristics ¹	Urban ²		Rural		White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or other Pacific Islander			
	2001	2011	2001	2011	2001	2011	2001	2011	2001	2011	2001	2011	2001	2011		
		% Change		% Change		% Change		% Change		% Change		% Change		% Change		
Number of births	73,319	-0.4	11,851	2.5	38,934	-1.6	35,103	-7.7	2,736	4,366	59.6	5,340	9.2	2,104	66.6	
Per 100 births:																
Teenage mother³	13.5	-30.2	15.9	-19.8	8.7	5.4	-37.3	18.9	-24.4	19.9	12.8	-35.4	19.0	-10.9	4.9	-35.9
Unwed mother	38.8	11.4	43.3	17.8	24.5	29.2	20.3	51.0	11.1	64.2	63.6	-0.9	70.1	10.0	17.0	-3.8
Early prenatal care⁴	76.1	8.4	71.9	7.2	86.2	87.1	2.1	65.3	17.1	73.8	80.4	8.9	64.6	6.3	82.7	4.7
0-4 prenatal visits	6.1	-24.7	8.4	-14.3	2.6	2.3	-10.9	10.0	-31.1	6.1	5.6	-8.4	11.6	-0.9	3.6	-8.8
Births with risk factors reported	26.7	38.3	37.9	-12.8	29.8	36.3	21.9	24.5	40.3	31.1	41.7	34.2	39.5	12.6	26.8	35.4
Births with complications reported	28.9	-32.0	30.3	-52.7	30.0	18.9	-36.4	27.5	-35.0	28.3	21.0	-25.6	32.5	-37.2	30.9	-29.0
Primary and repeat C-Section	20.5	38.0	19.3	33.6	22.2	29.1	32.5	18.7	39.6	22.4	31.1	39.1	16.7	38.2	23.8	38.7
Births with abnormal conditions reported	8.6	4.4	13.6	-43.1	9.7	8.6	-10.1	8.6	4.3	11.3	10.0	-11.8	9.4	-25.0	9.3	1.7
LBW rate	6.9	0.5	7.2	1.1	6.7	6.6	-0.4	6.7	-4.4	13.7	12.5	-8.7	7.3	-5.3	7.7	7.5
Newborn intensive care	5.9	-2.9	4.1	-9.5	5.9	5.5	-5.3	5.4	-3.7	9.0	7.5	-17.0	4.6	-5.7	5.6	-6.4
Births with congenital anomalies reported	1.1	-8.1	2.6	-36.7	1.4	1.1	-23.7	1.1	2.1	1.4	1.0	-26.4	1.9	-24.2	1.3	0.8
Preterm births (<37 weeks)	10.0	-6.4	9.3	-5.0	10.1	9.0	-10.1	9.4	-3.1	14.8	12.7	-14.0	10.1	-10.5	9.8	-8.9
Births paid for by the AHCCCS⁵	44.4	18.2	51.4	9.0	25.3	35.3	41.1	67.3	8.1	54.8	68.2	24.4	54.7	8.0	18.4	60.9

¹ Per 100 live births.
² Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.
³ Less than 20 years old.
⁴ Entered care in first trimester of pregnancy.
⁵ The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**TABLE 1B-26
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2011**

	TOTAL	Urban**	Rural	Mother's race/ethnicity						Un- known	
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Pacific Islander		Other race
TOTAL	85,190	73,040	12,150	38,294	32,398	4,366	5,830	3,434	71	88	709
Mother's age group											
<15	101	87	14	13	61	10	14	2	0	0	1
15-17	2,447	1,988	459	494	1,467	152	293	24	2	4	11
18-19	5,887	4,811	1,076	1,582	3,103	399	680	81	2	6	34
20-24	21,753	17,989	3,764	8,234	9,686	1,334	1,924	387	15	19	154
25-29	24,251	20,843	3,408	12,046	8,413	1,149	1,464	953	28	27	171
30-34	19,368	17,136	2,232	10,225	6,020	818	899	1,211	14	21	160
35-39	9,153	8,193	960	4,572	2,956	410	461	635	9	10	100
40-44	2,090	1,868	222	1,059	662	88	91	132	1	1	56
45+	137	124	13	69	30	6	4	9	0	0	19
Unknown	3	1	2	0	0	0	0	0	0	0	3
Payee for birth											
AHCCCS	45,148	38,342	6,806	13,669	23,567	2,976	3,445	1,000	40	44	407
IHS	1,663	366	1,297	50	29	6	1,565	5	0	0	8
Private insurance	35,362	31,834	3,528	23,047	7,676	1,289	725	2,319	29	42	235
Self	2,635	2,223	412	1,339	1,031	75	49	96	2	2	41
Unknown	382	275	107	189	95	20	46	14	0	0	18
Mother's education											
<8	2,386	2,249	137	198	1,924	140	34	82	0	2	6
8	1,523	1,355	168	240	1,085	49	114	24	1	1	9
9-11	12,845	10,738	2,107	2,691	7,964	581	1,396	134	7	10	62
12	26,096	21,408	4,688	9,629	11,682	1,591	2,340	633	26	16	179
13-16	32,312	28,120	4,192	19,041	8,103	1,645	1,721	1,588	33	45	136
17+	8,794	8,090	704	5,937	1,420	307	161	921	2	12	34
Unknown	1,234	1,080	154	558	220	53	64	52	2	2	283
Marital status											
Married	46,532	40,729	5,803	26,667	13,675	1,535	1,254	2,848	36	56	461
Unmarried	37,780	31,581	6,199	11,283	18,349	2,777	4,495	572	33	31	240
Other/Unknown*	878	730	148	344	374	54	81	14	2	1	8
None	1,814	1,585	229	651	776	130	192	42	1	2	20
1-15 pounds	10,258	8,267	1,991	3,537	4,566	608	1,100	337	7	12	91
16-20 pounds	10,435	8,934	1,501	3,497	5,082	571	781	394	8	14	88
21-24 pounds	6,022	5,215	807	2,567	2,413	272	435	286	1	3	45
25-30 pounds	19,072	16,284	2,788	8,613	7,344	900	1,198	828	15	14	160
31+ pounds	36,553	31,945	4,608	19,041	11,874	1,827	1,944	1,512	39	43	273
Unknown	1,036	810	226	388	343	58	180	35	0	0	32
Substance use											
Drinker, nonsmoker	300	245	55	168	48	14	54	13	0	0	3
Smoker, nondrinker	3,488	2,702	786	2,511	481	281	107	47	5	2	54
Smoker and drinker	134	95	39	53	30	11	33	2	0	0	5
Nonsmoker and nondrinker	81,268	69,998	11,270	35,562	31,839	4,060	5,636	3,372	66	86	647

**TABLE 1B-26 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2011**

	TOTAL	Urban**	Rural	Mother's race/ethnicity						Un- known		
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Pacific Islander		Other race	
Length of gestation												
<37 weeks	7,913	6,839	1,074	3,478	2,951	556	527	308	6	5	82	
37-41 weeks	76,901	65,923	10,978	34,650	29,347	3,788	5,243	3,111	65	81	616	
42+ weeks	318	234	84	148	83	17	50	15	0	2	3	
Unknown	58	44	14	18	17	5	10	0	0	0	8	
Weight at birth												
<1,000 grams	496	443	53	192	185	59	37	18	0	0	5	
1,000-1,499	505	439	66	233	160	50	37	19	0	2	4	
1,500-2,499	4,948	4,183	765	2,131	1,730	437	329	250	5	7	59	
2,500-3,999	72,777	62,230	10,547	32,557	27,999	3,615	4,890	2,988	57	73	598	
4000+ grams	6,451	5,736	715	3,178	2,321	204	535	159	9	6	39	
Unknown	13	9	4	3	3	1	2	0	0	0	4	
Prenatal care												
No care	1,344	1,156	188	239	813	70	144	33	1	3	41	
1st trimester	69,609	60,246	9,363	33,707	24,780	3,510	4,002	2,970	62	69	509	
2nd trimester	11,207	9,157	2,050	3,456	5,372	619	1,292	338	6	9	115	
3rd trimester	2,620	2,121	499	687	1,328	130	353	79	2	6	35	
Unknown	410	360	50	205	105	37	39	14	0	1	9	
Prenatal visits												
No visits	1,344	1,156	188	239	813	70	144	33	1	3	41	
1-4 visits	2,888	2,201	687	648	1,418	174	526	78	2	3	39	
5-8 visits	11,864	9,550	2,314	3,900	5,338	625	1,460	411	10	10	110	
9-12 visits	39,889	34,776	5,113	18,072	15,365	1,984	2,508	1,587	34	37	302	
13+ visits	28,732	24,941	3,791	15,197	9,342	1,469	1,151	1,306	24	34	209	
Unknown	473	416	57	238	122	44	41	19	0	1	8	
Newborn intensive care												
Yes	4,635	4,184	451	2,139	1,685	326	253	182	2	1	47	
No	80,494	68,809	11,685	36,106	30,707	4,039	5,574	3,252	69	87	660	
Unknown	61	47	14	49	6	1	3	0	0	0	2	
Obstetric procedures												
Amniocentesis	598	546	52	297	187	31	59	19	0	1	4	
Electro. fetal monit.	77,834	68,723	9,111	35,008	29,621	4,060	5,237	3,225	65	64	554	
Induction of labor	18,866	16,285	2,581	9,783	6,128	930	1,110	707	14	16	178	
Stimulation of labor	12,910	11,128	1,782	5,535	5,125	671	972	506	15	11	75	
Tocolysis	387	286	101	197	110	15	49	12	0	0	4	
Ultrasound	61,267	52,325	8,942	27,680	23,457	3,009	4,036	2,456	50	72	507	
Other	6,898	5,911	987	2,880	2,662	378	535	348	7	7	82	
Method of delivery												
Vaginal	60,471	51,597	8,874	26,639	23,652	2,957	4,346	2,253	51	56	517	
Vaginal after C-Section	896	759	137	381	288	49	130	40	0	1	7	
Primary C-Section	12,526	10,953	1,573	6,212	4,140	716	667	673	8	13	97	
Repeat C-Section	11,275	9,716	1,559	5,054	4,316	644	679	465	12	18	87	
Forceps	362	264	98	205	98	10	30	15	0	1	3	
Vacuum	2,338	1,895	443	1,163	828	110	95	113	1	1	27	

**TABLE 1B-26 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2011**

	TOTAL	Urban**	Rural	Mother's race/ethnicity						Un- known		
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Pacific Islander		Other race	
Births with medical risk factors												
Total	30,991	26,977	4,014	13,907	11,135	1,822	2,593	1,217	25	31	261	
Anemia	3,076	2,838	238	1,430	909	257	349	89	3	0	39	
Cardiac disease	200	180	20	122	38	15	13	11	0	0	1	
Lung disease	984	921	63	499	259	113	73	33	1	1	5	
Diabetes	3,950	3,465	485	1,310	1,642	165	544	262	2	8	17	
Genital herpes	866	817	49	527	198	64	42	28	0	0	7	
Hydramnios	1,074	978	96	442	370	89	107	57	1	1	7	
Hemoglobinopathy	21	20	1	15	5	0	1	0	0	0	0	
Chronic hypertension	702	625	77	295	235	76	70	22	0	0	4	
Pregnancy associated hypertension	3,569	3,086	483	1,708	1,132	225	366	103	5	6	24	
Eclampsia	762	669	93	276	330	52	75	24	1	0	4	
Previous infant 4000+g	268	224	44	132	71	5	56	2	0	0	2	
Previous SGA infant	756	701	55	377	241	74	41	16	0	0	7	
Renal disease	91	67	24	47	30	4	7	2	0	0	1	
RH sensitization	134	101	33	101	23	7	1	2	0	0	0	
Uterine bleeding	267	225	42	126	83	14	27	17	0	0	0	
Incompetent cervix	159	153	6	98	32	23	1	5	0	0	0	
Other	22,431	19,427	3,004	10,047	8,264	1,311	1,731	850	17	22	189	
Abnormal conditions of the newborn												
Total	7,496	6,555	941	3,341	2,906	435	411	329	3	8	63	
Anemia	28	20	8	18	2	3	4	1	0	0	0	
Birth injury	47	40	7	23	16	5	1	2	0	0	0	
Fetal alcohol syndrome	2	1	1	2	0	0	0	0	0	0	0	
Membrane disease	247	221	26	126	90	19	10	2	0	0	0	
Meconium aspiration	139	118	21	53	69	2	10	3	0	0	2	
Assisted vent <30 min	649	538	111	364	206	25	24	21	1	0	8	
Assisted vent >30 min	373	327	46	203	123	17	12	15	0	0	3	
Newborn seizures	48	37	11	21	16	4	5	2	0	0	0	
Other	6,680	5,899	781	2,879	2,666	402	367	302	3	8	53	
Births with congenital anomalies												
Total	938	738	200	409	364	45	84	27	1	0	8	
Anencephalus	9	9	0	2	4	2	0	1	0	0	0	
Spina bifida/meningocele	12	9	3	6	4	1	1	0	0	0	0	
Hydrocephalus	7	5	2	3	2	2	0	0	0	0	0	
Microcephalus	3	1	2	0	2	0	1	0	0	0	0	
Other CNS anomaly	10	9	1	4	5	1	0	0	0	0	0	
Heart malformations	62	53	9	26	24	5	5	1	0	0	1	
Other respiratory/circulatory	109	85	24	30	60	10	7	1	0	0	1	
Rectal atresia/stenosis	5	3	2	2	1	0	2	0	0	0	0	
Fistula/esophageal atresia	5	5	0	3	1	0	1	0	0	0	0	

**TABLE 1B-26 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2011**

	TOTAL	Urban**	Rural	Mother's race/ethnicity						Un- known		
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Pacific Islander		Other race	
Births with complications of labor												
Omphalocele/gastroschisis	24	22	2	5	16	0	2	1	0	0	0	0
Other gastrointestinal	19	17	2	8	7	2	1	1	0	0	0	0
Malformed genitalia	12	9	3	5	5	0	1	1	0	0	0	0
Renal agenesis	3	2	1	1	2	0	0	0	0	0	0	0
Other urogenital anomalies	30	26	4	13	11	1	2	3	0	0	0	0
Cleft lip/palate	52	39	13	22	17	1	10	2	0	0	0	0
Polydactyly/Syndactyly/Adactyly	18	9	9	8	3	1	5	1	0	0	0	0
Club foot	37	33	4	17	13	2	2	2	0	0	0	1
Diaphragmatic hernia	2	2	0	0	2	0	0	0	0	0	0	0
Other musculoskeletal	33	28	5	15	12	2	3	1	0	0	0	0
Down syndrome	39	30	9	14	17	1	5	2	0	0	0	0
Other chromosomal	25	22	3	12	10	1	1	1	0	0	0	0
Other	546	418	128	249	202	18	52	17	1	0	0	7
Total	16,094	14,351	1,743	7,302	5,793	919	1,190	758	11	13	108	10
Febrile	1,240	1,153	87	511	474	49	111	84	0	1	10	23
Meconium	3,923	3,611	312	1,495	1,786	238	222	151	5	3	23	17
Rupture of membrane	1,553	1,345	208	674	510	97	184	69	0	2	17	2
Abruption placenta	389	337	52	166	148	27	29	17	0	0	2	1
Placenta previa	301	273	28	156	92	14	19	19	0	0	1	5
Other bleeding	283	213	70	119	85	9	60	4	0	1	1	0
Seizures	19	16	3	6	9	1	2	1	0	0	0	0
Precipitous labor	1,046	856	190	410	427	62	106	31	3	1	6	4
Prolonged labor	498	401	97	257	115	20	79	21	1	1	1	10
Dysfunctional labor	1,336	1,089	247	596	408	66	192	64	0	0	17	2
Breech malpresentation	2,566	2,199	367	1,380	803	108	146	108	2	2	2	2
Cephalopelvic disproportion	291	243	48	139	92	19	24	14	0	1	1	2
Cord prolapse	94	76	18	41	34	8	8	1	0	0	0	2
Anesthetic complications	37	36	1	29	2	2	1	3	0	0	0	0
Fetal distress	5,277	4,932	345	2,564	1,734	356	282	313	2	5	21	0
Other	2	2	0	0	1	1	0	0	0	0	0	0

* "Refused", "Yes, divorced", "Unknown".

** Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for mor information.

**TABLE 1B-27
CHANGES FROM 2001 TO 2011 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
WHICH DIFFER BY PAYEE FOR THE DELIVERY**

Characteristics ¹	AHCCCS ²			Indian Health Service			Private Health Insurance			Self		
	2001	2011	% Change	2001	2011	% Change	2001	2011	% Change	2001	2011	% Change
Number of births	38,678	45,148	16.7	1,238	1,663	34.3	41,543	35,362	-14.9	2,245	2,635	17.4
Per 100 births:												
Teenage mother³	22.5	15.6	-30.6	18.9	18.3	-3.0	5.6	2.4	-57.3	12.7	7.2	-43.2
Unwed mother	62.3	64.8	4.1	68.8	76.4	11.0	17.0	17.6	3.8	40.5	31.5	-22.1
Early prenatal care⁴	62.7	75.4	20.2	64.3	64.5	0.3	89.1	91.7	2.9	60.3	69.5	15.3
0-4 prenatal visits	10.0	6.7	-33.3	15.3	14.6	-4.5	1.6	1.4	-14.6	21.5	16.5	-23.2
Births with risk factors reported	27.1	37.3	37.7	45.4	42.0	-7.5	28.6	35.8	25.0	27.1	27.0	-0.4
Births with complications reported	27.9	18.0	-35.6	39.3	23.0	-41.4	30.0	20.3	-32.4	25.5	14.3	-44.0
Primary and repeat C-Section	17.8	25.8	45.0	14.9	20.4	37.2	23.2	31.7	36.8	14.3	19.5	36.4
Births with abnormal conditions reported	9.2	9.5	2.9	9.9	6.8	-31.4	9.2	8.2	-10.9	10.0	6.7	-32.8
LBW rate	7.5	7.4	-2.0	5.9	5.6	-5.2	6.4	6.7	4.4	7.7	4.9	-35.9
Newborn intensive care	5.8	5.6	-4.1	2.9	2.8	-2.5	5.7	5.5	-3.3	6.4	4.1	-36.0
Births with congenital anomalies reported	1.3	1.2	-11.4	2.3	1.4	-39.9	1.2	1.0	-16.6	1.2	1.4	17.0
Preterm birth <37 weeks	10.0	9.7	-3.3	7.8	7.3	-5.9	9.8	9.0	-8.0	10.1	7.2	-28.6

¹Per 100 live births.

²The Arizona Health Care Cost Containment System is the State's Medicaid program.

³Less than 20 years old.

⁴Entered care in first trimester of pregnancy.

**TABLE 1B-28
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2011**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
TOTAL	85,190	45,148	1,663	35,362	2,635	382
Mother's age group						
<15	101	85	5	5	6	0
15-17	2,447	2,039	106	215	73	14
18-19	5,887	4,925	194	625	111	32
20-24	21,753	15,363	500	5,252	534	104
25-29	24,251	11,447	425	11,498	774	107
30-34	19,368	7,129	255	11,218	692	74
35-39	9,153	3,329	149	5,279	359	37
40-44	2,090	781	27	1,196	75	11
45+	137	47	2	74	11	3
Unknown	3	3	0	0	0	0
Mother's race/ethnicity						
White non-Hispanic	38,294	13,669	50	23,047	1,339	189
Hispanic or Latino	32,398	23,567	29	7,676	1,031	95
Black or African American	4,366	2,976	6	1,289	75	20
American Indian or Alaska Native	5,830	3,445	1,565	725	49	46
Asian	3,434	1,000	5	2,319	96	14
Native Hawaiian or Pacific Islander	71	40	0	29	2	0
Other race	88	44	0	42	2	0
Other/Unknown	709	407	8	235	41	18
Mother's education						
<8	2,386	2,088	14	206	73	5
8	1,523	1,332	27	88	70	6
9-11	12,845	11,107	410	958	309	61
12	26,096	17,554	673	7,115	626	128
13-16	32,312	11,522	486	19,043	1,151	110
17+	8,794	981	42	7,382	362	27
Unknown	1,234	564	11	570	44	45
Marital status						
Married	46,532	15,192	368	28,973	1,785	214
Unmarried	37,780	29,278	1,270	6,237	831	164
Other/Unknown*	878	678	25	152	19	4
Weight gain						
None	1,814	1,103	76	554	75	6
1-15 pounds	10,258	6,373	374	3,187	268	56
16-20 pounds	10,435	6,404	237	3,443	324	27
21-24 pounds	6,022	3,121	124	2,560	197	20
25-30 pounds	19,072	9,847	323	8,238	581	83
31+ pounds	36,553	17,773	472	17,063	1,111	134
Unknown	1,036	527	57	317	79	56

**TABLE 1B-28 (continued)
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2011**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
Substance use						
Drinker, nonsmoker	300	106	20	158	12	4
Smoker, nondrinker	3,488	2,746	20	621	81	20
Smoker and drinker	134	97	8	19	5	5
Nonsmoker and nondrinker	81,268	42,199	1,615	34,564	2,537	353
Length of gestation						
<37 weeks	7,913	4,364	122	3,189	190	48
37-41 weeks	76,901	40,617	1,515	32,048	2,401	320
42+ weeks	318	140	24	110	39	5
Unknown	58	27	2	15	5	9
Weight at birth						
<1,000 grams	496	262	10	201	14	9
1,000-1,499	505	268	7	215	7	8
1,500-2,499	4,948	2,790	76	1,947	109	26
2,500-3,999	72,777	38,712	1,430	30,072	2,250	313
4000+ grams	6,451	3,112	140	2,926	254	19
Unknown	13	4	0	1	1	7
Prenatal care						
No care	1,344	900	46	112	256	30
1st trimester	69,609	34,035	1,073	32,436	1,832	233
2nd trimester	11,207	8,102	420	2,236	386	63
3rd trimester	2,620	1,900	121	426	144	29
Unknown	410	211	3	152	17	27
Prenatal visits						
No visits	1,344	900	46	112	256	30
1-4 visits	2,888	2,113	197	371	179	28
5-8 visits	11,864	7,886	478	3,054	384	62
9-12 visits	39,889	21,026	656	17,030	1,025	152
13+ visits	28,732	12,971	283	14,623	772	83
Unknown	473	252	3	172	19	27
Newborn intensive care						
Yes	4,635	2,512	47	1,949	108	19
No	80,494	42,615	1,616	33,380	2,525	358
Unknown	61	21	0	33	2	5
Obstetric procedures						
Amniocentesis	598	326	12	250	4	6
Electro. fetal monit.	77,834	41,377	1,530	32,865	1,847	215
Induction of labor	18,866	9,380	278	8,756	384	68
Stimulation of labor	12,910	6,955	283	5,324	293	55
Tocolysis	387	185	27	166	8	1
Ultrasound	61,267	32,331	1,010	25,941	1,847	138
Other	6,898	3,550	94	3,123	112	19

**TABLE 1B-28 (continued)
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2011**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
Method of delivery						
Vaginal	60,471	33,076	1,259	23,746	2,090	300
Vaginal after C-Section	896	417	58	386	31	4
Primary C-Section	12,526	5,825	169	6,216	271	45
Repeat C-Section	11,275	5,826	171	5,003	243	32
Forceps	362	169	11	172	9	1
Vacuum	2,338	1,231	39	998	61	9
Total	30,991	16,845	698	12,642	711	95
Births with medical risk factors						
Anemia	3,076	1,646	106	1,259	46	19
Cardiac disease	200	100	2	96	1	1
Lung disease	984	573	9	391	9	2
Diabetes	3,950	2,022	155	1,707	54	12
Genital herpes	866	404	7	434	20	1
Hydramnios/oligohydramnios	1,074	515	40	494	23	2
Hemoglobinopathy	21	10	0	11	0	0
Chronic hypertension	702	350	18	317	11	6
Pregnancy associated hypertension	3,569	1,719	109	1,675	62	4
Eclampsia	762	445	22	266	23	6
Previous infant 4000+g	268	132	20	100	15	1
Previous SGA infant	756	416	12	311	10	7
Renal disease	91	50	4	35	2	0
RH sensitization	134	46	0	85	3	0
Uterine bleeding	267	128	4	124	10	1
Incompetent cervix	159	65	0	92	2	0
Other	22,431	12,720	407	8,704	534	66
Total	7,496	4,275	113	2,899	177	32
Abnormal conditions of the newborn						
Anemia	28	13	2	11	1	1
Birth injury	47	31	0	16	0	0
Fetal alcohol syndrome	2	0	0	2	0	0
Membrane disease	247	146	4	86	10	1
Meconium aspiration	139	82	3	48	6	0
Assisted vent <30 min	649	293	11	319	25	1
Assisted vent >30 min	373	157	5	196	13	2
Newborn seizures	48	31	2	13	2	0
Other	6,680	3,898	93	2,513	146	30
Total	938	520	23	354	37	4
Births with congenital anomalies						
Anencephalus	9	5	0	4	0	0
Spina bifida/meningocele	12	6	0	4	2	0
Hydrocephalus	7	4	0	3	0	0
Microcephalus	3	1	0	2	0	0

**TABLE 1B-28 (continued)
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2011**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
Other CNS anomaly	10	7	0	3	0	0
Heart malformations	62	34	3	25	0	0
Other respiratory/circulatory	109	78	2	23	6	0
Rectal atresia/stenosis	5	3	1	1	0	0
Fistula/esophageal atresia	5	3	0	2	0	0
Omphalocele/gastroschisis	24	18	0	6	0	0
Other gastrointestinal anomalies	19	12	1	5	1	0
Malformed genitalia	12	6	1	3	2	0
Renal agenesis	3	1	0	1	1	0
Other urogenital	30	13	0	17	0	0
Cleft lip/palate	52	25	3	22	2	0
Polydactyly/syndactyly/adactyly	18	11	1	4	2	0
Club foot	37	19	1	16	1	0
Diaphragmatic hernia	2	1	0	0	1	0
Other musculoskeletal	33	22	0	11	0	0
Down syndrome	39	22	1	15	1	0
Other chromosomal	25	11	0	14	0	0
Other	546	290	13	219	20	4
Total	16,094	8,117	383	7,168	376	50
Births with complications of labor and/or delivery	1,240	563	47	595	32	3
Meconium	3,923	2,264	70	1,456	113	20
Rupture of membrane	1,553	820	77	614	37	5
Abruption placenta	389	216	12	151	9	1
Placenta previa	301	127	3	169	1	1
Other bleeding	283	146	29	102	5	1
Seizures	19	10	1	8	0	0
Precipitous labor	1,046	572	34	376	57	7
Prolonged labor	498	213	35	236	12	2
Dysfunctional labor	1,336	682	75	557	18	4
Breech malpresentation	2,566	1,188	52	1,272	49	5
Cephalopelvic disproportion	291	142	14	130	3	2
Cord prolapse	94	56	1	36	0	1
Anesthetic complications	37	13	0	24	0	0
Fetal distress	5,277	2,422	63	2,687	96	9
Other	2	0	0	1	0	1

* "Refused", "Yes, divorced", "Unknown"

Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,
ARIZONA, 2011**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All race/ ethnic groups	AHCCCS	45,148	85	2,039	4,925	15,363	11,447	7,129	3,329	781	47	3
	IHS	1,663	5	106	194	500	425	255	149	27	2	0
	Private insurance	35,362	5	215	625	5,252	11,498	11,218	5,279	1,196	74	0
	Self	2,635	6	73	111	534	774	692	359	75	11	0
	Unknown	382	0	14	32	104	107	74	37	11	3	0
	TOTAL	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3
White non- Hispanic	AHCCCS	13,669	10	381	1,263	4,830	3,914	2,176	881	203	11	0
	IHS	50	0	2	4	12	11	12	8	1	0	0
	Private insurance	23,047	2	97	284	3,128	7,626	7,594	3,458	809	49	0
	Self	1,339	1	11	26	214	432	405	203	40	7	0
	Unknown	189	0	3	5	50	63	38	22	6	2	0
	TOTAL	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0
Hispanic or Latino	AHCCCS	23,567	56	1,313	2,770	7,832	5,597	3,701	1,860	421	17	0
	IHS	29	0	2	3	6	9	4	4	1	0	0
	Private insurance	7,676	2	89	240	1,550	2,520	2,074	976	214	11	0
	Self	1,031	3	56	75	273	264	223	110	25	2	0
	Unknown	95	0	7	15	25	23	18	6	1	0	0
	TOTAL	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0
Black or African American	AHCCCS	2,976	9	136	344	1,094	720	443	192	35	3	0
	IHS	6	0	1	0	3	1	1	0	0	0	0
	Private insurance	1,289	0	10	47	216	406	358	200	49	3	0
	Self	75	1	2	5	15	19	14	16	3	0	0
	Unknown	20	0	3	3	6	3	2	2	1	0	0
	TOTAL	4,366	10	152	399	1,334	1,149	818	410	88	6	0
American Indian or Alaska Native	AHCCCS	3,445	8	175	450	1,259	831	461	209	50	2	0
	IHS	1,565	5	101	187	478	397	235	137	23	2	0
	Private insurance	725	0	13	32	151	215	189	109	16	0	0
	Self	49	1	3	5	18	11	8	3	0	0	0
	Unknown	46	0	1	6	18	10	6	3	2	0	0
	TOTAL	5,830	14	293	680	1,924	1,464	899	461	91	4	0
Asian	AHCCCS	1,000	1	20	65	225	272	256	123	35	3	0
	IHS	5	0	0	0	0	1	3	0	1	0	0
	Private insurance	2,319	1	4	15	156	638	917	490	92	6	0
	Self	96	0	0	0	5	38	30	19	4	0	0
	Unknown	14	0	0	1	1	4	5	3	0	0	0
	TOTAL	3,434	2	24	81	387	953	1,211	635	132	9	0
Native Hawaiian or Pacific Islander	AHCCCS	40	0	2	1	10	18	7	2	0	0	0
	IHS	0	0	0	0	0	0	0	0	0	0	0
	Private insurance	29	0	0	1	4	9	7	7	1	0	0
	Self	2	0	0	0	1	1	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	71	0	2	2	15	28	14	9	1	0	0
Other race	AHCCCS	44	0	4	5	13	12	8	2	0	0	0
	IHS	0	0	0	0	0	0	0	0	0	0	0
	Private insurance	42	0	0	1	6	14	12	8	1	0	0
	Self	2	0	0	0	0	1	1	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	88	0	4	6	19	27	21	10	1	0	0
Unknown	AHCCCS	407	1	8	27	100	83	77	60	37	11	3
	IHS	8	0	0	0	1	6	0	0	1	0	0
	Private insurance	235	0	2	5	41	70	67	31	14	5	0
	Self	41	0	1	0	8	8	11	8	3	2	0
	Unknown	18	0	0	2	4	4	5	1	1	1	0
	TOTAL	709	1	11	34	154	171	160	100	56	19	3

**TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2011**

	TOTAL	Mother's age group										
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
All race/ ethnic groups	No care	1,344	3	71	138	443	316	207	123	33	9	1
	1st trimester	69,609	61	1,563	4,166	16,824	20,508	16,809	7,830	1,749	97	2
	2nd trimester	11,207	29	614	1,268	3,516	2,706	1,880	937	234	23	0
	3rd trimester	2,620	8	190	287	865	597	391	216	59	7	0
	Unknown	410	0	9	28	105	124	81	47	15	1	0
	TOTAL	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3
White non- Hispanic	No care	239	0	5	13	74	63	47	33	3	1	0
	1st trimester	33,707	7	352	1,223	6,821	10,796	9,354	4,138	957	59	0
	2nd trimester	3,456	4	108	275	1,067	940	666	310	79	7	0
	3rd trimester	687	2	26	59	229	182	107	67	13	2	0
	Unknown	205	0	3	12	43	65	51	24	7	0	0
	TOTAL	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0
Hispanic or Latino	No care	813	2	53	97	279	188	108	64	20	2	0
	1st trimester	24,780	37	939	2,148	7,227	6,682	4,873	2,356	499	19	0
	2nd trimester	5,372	18	358	690	1,710	1,239	826	418	107	6	0
	3rd trimester	1,328	4	114	158	434	280	195	107	33	3	0
	Unknown	105	0	3	10	36	24	18	11	3	0	0
	TOTAL	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0
Black or African American	No care	70	0	2	6	29	15	13	4	1	0	0
	1st trimester	3,510	7	97	289	1,047	965	681	342	76	6	0
	2nd trimester	619	3	44	89	202	128	98	45	10	0	0
	3rd trimester	130	0	8	12	45	31	21	12	1	0	0
	Unknown	37	0	1	3	11	10	5	7	0	0	0
	TOTAL	4,366	10	152	399	1,334	1,149	818	410	88	6	0
American Indian or Alaska Native	No care	144	1	10	19	48	36	22	6	2	0	0
	1st trimester	4,002	9	148	427	1,288	1,047	670	349	62	2	0
	2nd trimester	1,292	3	96	187	443	293	160	90	18	2	0
	3rd trimester	353	1	37	45	132	71	43	16	8	0	0
	Unknown	39	0	2	2	13	17	4	0	1	0	0
	TOTAL	5,830	14	293	680	1,924	1,464	899	461	91	4	0
Asian	No care	33	0	0	2	5	11	9	6	0	0	0
	1st trimester	2,970	1	13	53	292	834	1,089	560	121	7	0
	2nd trimester	338	0	8	17	71	82	96	53	9	2	0
	3rd trimester	79	1	3	9	17	23	15	11	0	0	0
	Unknown	14	0	0	0	2	3	2	5	2	0	0
	TOTAL	3,434	2	24	81	387	953	1,211	635	132	9	0
Native Hawaiian or Pacific Islander	No care	1	0	0	0	1	0	0	0	0	0	0
	1st trimester	62	0	2	1	11	27	12	9	0	0	0
	2nd trimester	6	0	0	1	2	0	2	0	1	0	0
	3rd trimester	2	0	0	0	1	1	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	71	0	2	2	15	28	14	9	1	0	0
Other race	No care	3	0	0	0	2	0	1	0	0	0	0
	1st trimester	69	0	4	3	15	24	14	8	1	0	0
	2nd trimester	9	0	0	2	1	2	3	1	0	0	0
	3rd trimester	6	0	0	1	1	0	3	1	0	0	0
	Unknown	1	0	0	0	0	1	0	0	0	0	0
	TOTAL	88	0	4	6	19	27	21	10	1	0	0
Unknown	No care	41	0	1	1	5	3	7	10	7	6	1
	1st trimester	509	0	8	22	123	133	116	68	33	4	2
	2nd trimester	115	1	0	7	20	22	29	20	10	6	0
	3rd trimester	35	0	2	3	6	9	7	2	4	2	0
	Unknown	9	0	0	1	0	4	1	0	2	1	0
	TOTAL	709	1	11	34	154	171	160	100	56	19	3

**TABLE 1B-31
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2011**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All race/ethnic groups	No visits	1,344	3	71	138	443	316	207	123	33	9	1
	1-4 visits	2,888	12	169	309	961	709	437	229	55	7	0
	5-8 visits	11,864	30	562	1,195	3,578	2,994	2,159	1,087	246	13	0
	9-12 visits	39,889	38	1,095	2,793	10,236	11,358	9,197	4,192	929	49	2
	13+ visits	28,732	18	539	1,415	6,415	8,731	7,279	3,465	812	58	0
	Unknown	473	0	11	37	120	143	89	57	15	1	0
TOTAL	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3	
White non-Hispanic	No visits	239	0	5	13	74	63	47	33	3	1	0
	1-4 visits	648	3	16	50	220	181	106	55	17	0	0
	5-8 visits	3,900	4	100	247	1,051	1,110	862	433	86	7	0
	9-12 visits	18,072	5	229	760	3,860	5,673	4,971	2,100	452	22	0
	13+ visits	15,197	1	139	497	2,977	4,944	4,185	1,921	494	39	0
	Unknown	238	0	5	15	52	75	54	30	7	0	0
TOTAL	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0	
Hispanic or Latino	No visits	813	2	53	97	279	188	108	64	20	2	0
	1-4 visits	1,418	4	105	171	468	324	208	113	22	3	0
	5-8 visits	5,338	18	337	655	1,705	1,249	840	424	106	4	0
	9-12 visits	15,365	26	654	1,482	4,679	4,021	2,819	1,370	302	12	0
	13+ visits	9,342	11	314	686	2,516	2,598	2,027	972	209	9	0
	Unknown	122	0	4	12	39	33	18	13	3	0	0
TOTAL	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0	
Black or African American	No visits	70	0	2	6	29	15	13	4	1	0	0
	1-4 visits	174	2	11	19	57	46	24	14	1	0	0
	5-8 visits	625	3	28	66	217	145	103	48	14	1	0
	9-12 visits	1,984	4	67	196	615	538	350	170	42	2	0
	13+ visits	1,469	1	43	107	403	394	321	167	30	3	0
	Unknown	44	0	1	5	13	11	7	7	0	0	0
TOTAL	4,366	10	152	399	1,334	1,149	818	410	88	6	0	
American Indian or Alaska Native	No visits	144	1	10	19	48	36	22	6	2	0	0
	1-4 visits	526	2	34	60	190	128	75	29	8	0	0
	5-8 visits	1,460	3	92	197	516	356	189	91	16	0	0
	9-12 visits	2,508	3	125	307	837	604	386	201	43	2	0
	13+ visits	1,151	5	31	93	319	325	222	133	21	2	0
	Unknown	41	0	1	4	14	15	5	1	1	0	0
TOTAL	5,830	14	293	680	1,924	1,464	899	461	91	4	0	
Asian	No visits	33	0	0	2	5	11	9	6	0	0	0
	1-4 visits	78	1	2	7	18	22	16	11	1	0	0
	5-8 visits	411	1	4	18	65	109	124	75	14	1	0
	9-12 visits	1,587	0	12	36	159	419	596	291	69	5	0
	13+ visits	1,306	0	6	18	138	388	462	246	45	3	0
	Unknown	19	0	0	0	2	4	4	6	3	0	0
TOTAL	3,434	2	24	81	387	953	1,211	635	132	9	0	
Native Hawaiian or Pacific Islander	No visits	1	0	0	0	1	0	0	0	0	0	0
	1-4 visits	2	0	0	0	1	0	1	0	0	0	0
	5-8 visits	10	0	0	2	0	3	3	1	1	0	0
	9-12 visits	34	0	2	0	10	14	4	4	0	0	0
	13+ visits	24	0	0	0	3	11	6	4	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
TOTAL	71	0	2	2	15	28	14	9	1	0	0	
Other race	No visits	3	0	0	0	2	0	1	0	0	0	0
	1-4 visits	3	0	0	1	0	0	2	0	0	0	0
	5-8 visits	10	0	0	1	1	3	4	1	0	0	0
	9-12 visits	37	0	2	2	9	11	6	6	1	0	0
	13+ visits	34	0	2	2	7	12	8	3	0	0	0
	Unknown	1	0	0	0	0	1	0	0	0	0	0
TOTAL	88	0	4	6	19	27	21	10	1	0	0	
Unknown	No visits	41	0	1	1	5	3	7	10	7	6	1
	1-4 visits	39	0	1	1	7	8	5	7	6	4	0
	5-8 visits	110	1	1	9	23	19	34	14	9	0	0
	9-12 visits	302	0	4	10	67	78	65	50	20	6	2
	13+ visits	209	0	4	12	52	59	48	19	13	2	0
	Unknown	8	0	0	1	0	4	1	0	1	1	0
TOTAL	709	1	11	34	154	171	160	100	56	19	3	

**TABLE 1B-32
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2011**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
TOTAL	85,190	1,344	69,609	11,207	2,620	410	4,232	80,485	473
Mother's age group									
<15	101	3	61	29	8	0	15	86	0
15-17	2,447	71	1,563	614	190	9	240	2,196	11
18-19	5,887	138	4,166	1,268	287	28	447	5,403	37
20-24	21,753	443	16,824	3,516	865	105	1,404	20,229	120
25-29	24,251	316	20,508	2,706	597	124	1,025	23,083	143
30-34	19,368	207	16,809	1,880	391	81	644	18,635	89
35-39	9,153	123	7,830	937	216	47	352	8,744	57
40-44	2,090	33	1,749	234	59	15	88	1,987	15
45+	137	9	97	23	7	1	16	120	1
Unknown	3	1	2	0	0	0	1	2	0
Payee for birth	45,148	900	34,035	8,102	1,900	211	3,013	41,883	252
AHCCCS									
IHS	1,663	46	1,073	420	121	3	243	1,417	3
Private insurance	35,362	112	32,436	2,236	426	152	483	34,707	172
Self	2,635	256	1,832	386	144	17	435	2,181	19
Unknown	382	30	233	63	29	27	58	297	27
Mother's education									
<8	2,386	98	1,670	510	102	6	220	2,158	8
8	1,523	90	997	330	98	8	221	1,294	8
9-11	12,845	403	8,982	2,650	742	68	1,283	11,476	86
12	26,096	482	20,582	4,025	905	102	1,472	24,498	126
13-16	32,312	185	28,426	2,964	594	143	782	31,373	157
17+	8,794	29	8,092	521	112	40	125	8,627	42
Unknown	1,234	57	860	207	67	43	129	1,059	46
Marital status									
Married	46,532	336	40,827	4,227	916	226	1,234	45,048	250
Unmarried	37,780	981	28,138	6,822	1,662	177	2,918	34,647	215
Other/Unknown*	878	27	644	158	42	7	80	790	8
Weight gain									
None	1,814	138	1,246	264	110	56	297	1,460	57
1-15 pounds	10,258	196	7,776	1,725	525	36	829	9,390	39
16-20 pounds	10,435	232	8,262	1,541	370	30	642	9,747	46
21-24 pounds	6,022	64	4,886	873	184	15	242	5,763	17
25-30 pounds	19,072	260	15,779	2,484	491	58	797	18,203	72
31+ pounds	36,553	312	31,071	4,174	864	132	1,172	35,226	155
Unknown	1,036	142	589	146	76	83	253	696	87
Substance use									
Drinker, nonsmoker	300	17	214	51	13	5	39	255	6
Smoker, nondrinker	3,488	127	2,490	676	170	25	364	3,098	26
Smoker and drinker	134	14	62	44	12	2	29	101	4
Nonsmoker and nondrinker	81,268	1,186	66,843	10,436	2,425	378	3,800	77,031	437

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2011**

	TOTAL	Prenatal care					Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown		
Length of gestation											
<37 weeks	7,913	284	6,430	954	175	70	826	7,013	74		
37-41 weeks	76,901	1,026	62,929	10,198	2,424	324	3,354	73,164	383		
42+ weeks	318	23	222	53	19	1	37	280	1		
Unknown	58	11	28	2	2	15	15	28	15		
Weight at birth											
<1,000 grams	496	33	419	40	1	3	153	338	5		
1,000-1,499	505	25	413	58	0	9	79	417	9		
1,500-2,499	4,948	131	3,998	639	133	47	389	4,507	52		
2,500-3,999	72,777	1,081	59,316	9,748	2,312	320	3,371	69,031	375		
4000+ grams	6,451	73	5,459	721	173	25	237	6,187	27		
Unknown	13	1	4	1	1	6	3	5	5		
Newborn intensive care											
Yes	4,635	147	3,700	609	123	56	445	4,127	63		
No	80,494	1,197	65,859	10,593	2,496	349	3,786	76,303	405		
Unknown	61	0	50	5	1	5	1	55	5		
Obstetric procedures											
Amniocentesis	598	2	507	74	13	2	19	574	5		
Electro. fetal monit.	77,834	1,171	63,784	10,163	2,387	329	3,755	73,689	390		
Induction of labor	18,866	102	15,712	2,429	569	54	545	18,253	68		
Stimulation of labor	12,910	163	10,475	1,838	407	27	586	12,289	35		
Tocolysis	387	7	309	55	15	1	26	360	1		
Ultrasound	61,267	870	49,627	8,381	2,073	316	3,072	57,840	355		
Other	6,898	70	5,750	858	206	14	276	6,607	15		
Method of delivery											
Vaginal	60,471	1,056	48,905	8,284	1,936	290	3,181	56,950	340		
Vaginal after C-Section	896	11	703	146	32	4	58	835	3		
Primary C-Section	12,526	138	10,573	1,447	299	69	452	11,998	76		
Repeat C-Section	11,275	139	9,411	1,326	353	46	541	10,681	53		
Forceps	362	6	304	44	8	0	17	345	0		
Vacuum	2,338	28	1,886	311	101	12	116	2,210	12		
Births with medical risk factors											
Total	30,991	715	23,929	4,691	1,450	206	2,298	28,461	232		
Anemia	3,076	55	2,431	457	124	9	184	2,881	11		
Cardiac disease	200	1	172	21	4	2	5	193	2		
Lung disease	984	8	844	111	17	4	36	943	5		
Diabetes	3,950	32	3,329	471	105	13	111	3,823	16		
Genital herpes	866	5	764	72	21	4	24	838	4		
Hydramnios/oligohydramnios	1,074	19	888	124	40	3	61	1,009	4		
Hemoglobinopathy	21	1	19	0	0	1	1	19	1		
Chronic hypertension	702	6	610	74	12	0	27	674	1		
Pregnancy associated hypertension	3,569	30	3,004	422	97	16	149	3,400	20		

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2011**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
Eclampsia	762	11	588	120	37	6	60	695	7
Previous infant 4000+g	268	2	204	51	10	1	14	253	1
Previous SGA infant	756	9	601	118	23	5	45	706	5
Renal disease	91	0	81	7	2	1	1	89	1
RH sensitization	134	3	121	9	1	0	3	131	0
Uterine bleeding	267	5	235	21	6	0	17	249	1
Incompetent cervix	159	2	144	13	0	0	9	149	1
Other	22,431	657	16,550	3,755	1,295	174	2,092	20,146	193
Total	7,496	187	5,801	1,136	293	79	626	6,785	85
Abnormal conditions of the newborn									
Anemia	28	1	25	1	1	0	2	26	0
Birth injury	47	1	33	12	0	1	5	41	1
Fetal alcohol syndrome	2	0	2	0	0	0	1	1	0
Membrane disease	247	8	186	26	8	19	31	197	19
Meconium aspiration	139	8	92	30	8	1	17	121	1
Assisted vent <30 min	649	16	496	104	28	5	38	605	6
Assisted vent >30 min	373	17	289	50	12	5	43	324	6
Newborn seizures	48	0	40	7	1	0	1	47	0
Other	6,680	162	5,148	1,043	265	62	561	6,052	67
Total	938	25	735	137	38	3	82	851	5
Births with congenital anomalies									
Anencephalus	9	0	9	0	0	0	0	9	0
Spina bifida/meningocele	12	0	9	1	2	0	2	10	0
Hydrocephalus	7	0	5	2	0	0	1	6	0
Microcephalus	3	0	3	0	0	0	0	3	0
Other CNS anomaly	10	0	9	1	0	0	0	10	0
Heart malformations	62	4	50	7	1	0	6	56	0
Other respiratory/circulatory	109	7	83	16	3	0	17	92	0
Rectal atresia/stenosis	5	1	3	1	0	0	1	4	0
Fistula/esophageal atresia	5	0	5	0	0	0	0	5	0
Omphalocele/gastroschisis	24	0	21	3	0	0	1	23	0
Other gastrointestinal	19	0	15	2	2	0	1	18	0
Malformed genitalia	12	0	8	3	1	0	0	12	0
Renal agenesis	3	0	2	1	0	0	0	3	0
Other urogenital	30	0	25	5	0	0	0	30	0
Cleft lip/palate	52	1	40	9	2	0	4	48	0
Polydactyl/syndactyl/adactyl	18	0	14	3	1	0	1	17	0
Club foot	37	1	29	7	0	0	2	35	0
Diaphragmatic hernia	2	0	2	0	0	0	0	2	0

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2011**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
Other musculoskeletal	33	0	28	5	0	0	0	32	1
Down syndrome	39	0	33	6	0	0	0	38	0
Other chromosomal	25	1	22	1	1	0	2	23	0
Other	546	12	415	86	30	3	49	493	4
Total	16,094	314	13,157	2,090	464	69	937	15,080	77
Births with complications									
Febrile	1,240	13	1,033	147	40	7	53	1,180	7
Meconium	3,923	91	2,985	665	164	18	244	3,661	18
Rupture of membrane	1,553	43	1,242	211	44	13	163	1,375	15
Abruption placenta	389	17	290	69	9	4	48	337	4
Placenta previa	301	5	258	31	5	2	20	279	2
Other bleeding	283	1	228	42	12	0	17	265	1
Seizures	19	1	14	4	0	0	3	16	0
Precipitous labor	1,046	60	727	203	50	6	146	893	7
Prolonged labor	498	5	425	59	7	2	12	483	3
Dysfunctional labor	1,336	9	1,127	157	37	6	44	1,286	6
Breech malpresentation	2,566	38	2,160	295	58	15	143	2,407	16
Cephalopelvic disproportion	291	2	251	32	3	3	6	282	3
Cord prolapse	94	1	74	16	3	0	6	88	0
Anesthetic complications	37	0	35	2	0	0	1	36	0
Fetal distress	5,277	78	4,549	524	108	18	208	5,049	20
Other	2	0	2	0	0	0	0	2	0

* "Refused", "Yes, divorced", "Unknown"

**TABLE 1B-33
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2011**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
TOTAL	85,190	5,949	79,228	13	7,913	76,901	318	58
Mother's age group								
<15	101	4	97	0	5	94	2	0
15-17	2,447	225	2,222	0	239	2,198	10	0
18-19	5,887	461	5,424	2	521	5,343	18	5
20-24	21,753	1,552	20,199	2	1,906	19,758	72	17
25-29	24,251	1,449	22,797	5	2,089	22,055	92	15
30-34	19,368	1,292	18,073	3	1,821	17,457	75	15
35-39	9,153	730	8,422	1	1,027	8,082	40	4
40-44	2,090	211	1,879	0	275	1,805	8	2
45+	137	24	113	0	28	108	1	0
Unknown	3	1	2	0	2	1	0	0
Payee for birth								
AHCCCS	45,148	3,320	41,824	4	4,364	40,617	140	27
IHS	1,663	93	1,570	0	122	1,515	24	2
Private insurance	35,362	2,363	32,998	1	3,189	32,048	110	15
Self	2,635	130	2,504	1	190	2,401	39	5
Unknown	382	43	332	7	48	320	5	9
Mother's education								
<8	2,386	152	2,234	0	229	2,145	12	0
8	1,523	116	1,406	1	160	1,357	5	1
9-11	12,845	993	11,851	1	1,284	11,515	37	9
12	26,096	1,872	24,220	4	2,431	23,558	85	22
13-16	32,312	2,123	30,188	1	2,890	29,272	132	18
17+	8,794	574	8,220	0	773	7,982	37	2
Unknown	1,234	119	1,109	6	146	1,072	10	6
Marital status								
Married	46,532	2,900	43,626	6	4,141	42,182	184	25
Unmarried	37,780	2,974	34,799	7	3,673	33,944	130	33
Other/Unknown*	878	75	803	0	99	775	4	0
None	1,814	214	1,599	1	282	1,518	11	3
1-15 pounds	10,258	1,159	9,098	1	1,366	8,848	34	10
16-20 pounds	10,435	894	9,539	2	1,142	9,255	32	6
21-24 pounds	6,022	430	5,591	1	552	5,451	16	3
25-30 pounds	19,072	1,168	17,904	0	1,557	17,444	67	4
31+ pounds	36,553	1,944	34,608	1	2,835	33,552	153	13
Unknown	1,036	140	889	7	179	833	5	19

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2011**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Substance use								
Drinker, nonsmoker	300	33	267	0	40	259	0	1
Smoker, nondrinker	3,488	430	3,058	0	476	2,999	8	5
Smoker and drinker	134	19	115	0	19	113	1	1
Nonsmoker and nondrinker	81,268	5,467	75,788	13	7,378	73,530	309	51
Prenatal care								
No care	1,344	189	1,154	1	284	1,026	23	11
1st trimester	69,609	4,830	64,775	4	6,430	62,929	222	28
2nd trimester	11,207	737	10,469	1	954	10,198	53	2
3rd trimester	2,620	134	2,485	1	175	2,424	19	2
Unknown	410	59	345	6	70	324	1	15
Prenatal visits								
No visits	1,344	189	1,154	1	284	1,026	23	11
1-4 visits	2,888	432	2,454	2	542	2,328	14	4
5-8 visits	11,864	1,394	10,469	1	1,833	9,982	42	7
9-12 visits	39,889	2,172	37,713	4	3,012	36,763	100	14
13+ visits	28,732	1,696	27,036	0	2,168	26,419	138	7
Unknown	473	66	402	5	74	383	1	15
Newborn intensive care								
Yes	4,635	2,196	2,437	2	2,635	1,985	11	4
No	80,494	3,745	76,739	10	5,268	74,866	307	53
Unknown	61	8	52	1	10	50	0	1
Obstetric procedures								
Amniocentesis	598	62	536	0	101	495	2	0
Electro. fetal monit.	77,834	5,476	72,355	3	7,311	70,210	271	42
Induction of labor	18,866	841	18,025	0	878	17,890	88	10
Stimulation of labor	12,910	621	12,288	1	1,047	11,809	48	6
Tocolysis	387	66	321	0	84	302	1	0
Ultrasound	61,267	4,357	56,906	4	5,783	55,215	238	31
Other	6,898	440	6,458	0	557	6,303	26	12
Method of delivery								
Vaginal	60,471	3,113	57,348	10	4,352	55,832	241	46
Vaginal after C-Section	896	54	841	1	72	816	8	0
Primary C-Section	12,526	2,005	10,520	1	2,283	10,183	53	7
Repeat C-Section	11,275	777	10,498	0	1,206	10,049	16	4
Forceps	362	13	349	0	24	337	1	0
Vacuum	2,338	76	2,262	0	112	2,220	6	0

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2011**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Births with medical risk factors								
Total	30,991	3,250	27,737	4	4,353	26,514	99	25
Anemia	3,076	273	2,803	0	369	2,698	9	0
Cardiac disease	200	14	186	0	23	177	0	0
Lung disease	984	96	888	0	126	854	3	1
Diabetes	3,950	294	3,656	0	625	3,319	4	2
Genital herpes	866	62	804	0	83	781	1	1
Hydramnios/oligohydramnios	1,074	206	868	0	211	859	3	1
Hemoglobinopathy	21	0	21	0	0	21	0	0
Chronic hypertension	702	120	582	0	173	528	0	1
hypertension	3,569	586	2,982	1	761	2,801	5	2
Eclampsia	762	212	549	1	276	484	2	0
Previous infant 4000 +g	268	7	261	0	17	245	3	3
Previous SGA infant	756	159	597	0	214	540	2	0
Renal disease	91	11	80	0	20	71	0	0
RH sensitization	134	11	123	0	10	124	0	0
Uterine bleeding	267	56	211	0	73	193	1	0
Incompetent cervix	159	69	89	1	78	81	0	0
Other	22,431	2,420	20,008	3	3,189	19,143	81	18
Total	7,496	1,489	6,004	3	1,820	5,639	27	10
Abnormal conditions of the newborn								
Anemia	28	5	23	0	5	23	0	0
Birth injury	47	5	42	0	5	41	0	1
Fetal alcohol syndrome	2	0	2	0	0	2	0	0
Membrane disease	247	111	136	0	140	107	0	0
Meconium aspiration	139	9	130	0	6	131	2	0
Assisted vent <30 min	649	103	546	0	128	518	1	2
Assisted vent >30 min	373	138	235	0	171	201	1	0
Newborn seizures	48	1	47	0	4	43	1	0
Other	6,680	1,290	5,387	3	1,591	5,056	24	9
Total	938	190	747	1	214	721	2	1
Births with congenital anomalies								
Anencephalus	9	2	7	0	2	7	0	0
Spina bifida/meningocele	12	4	8	0	4	8	0	0
Hydrocephalus	7	3	4	0	4	3	0	0
Microcephalus	3	1	2	0	1	2	0	0

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2011**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Other CNS anomaly	10	4	6	0	5	5	0	0
Heart malformations	62	12	50	0	11	51	0	0
Other respiratory/circulatory	109	37	72	0	48	61	0	0
Rectal atresia/stenosis	5	0	5	0	0	5	0	0
Fistula/esophageal atresia	5	3	2	0	3	2	0	0
Omphalocele/gastroschisis	24	12	12	0	14	10	0	0
Other gastrointestinal	19	8	11	0	7	12	0	0
Malformed genitalia	12	3	9	0	2	9	1	0
Renal agenesis	3	0	3	0	0	3	0	0
Other urogenital	30	3	27	0	6	24	0	0
Cleft lip/palate	52	9	43	0	10	42	0	0
Polydactyly/syndactyly/adactyly	18	3	15	0	2	16	0	0
Club foot	37	9	28	0	7	30	0	0
Diaphragmatic hernia	2	0	2	0	0	2	0	0
Other musculoskeletal	33	8	25	0	9	24	0	0
Down syndrome	39	9	30	0	9	30	0	0
Other chromosomal	25	11	14	0	8	17	0	0
Other	546	93	452	1	106	438	1	1
Total	16,094	2,183	13,909	2	2,748	13,253	87	6
Births with complications	1,240	59	1,181	0	90	1,138	11	1
Meconium	3,923	134	3,789	0	153	3,734	35	1
Rupture of membrane	1,553	614	939	0	909	639	4	1
Abruption placenta	389	153	236	0	187	201	0	1
Placenta previa	301	70	231	0	121	179	1	0
Other bleeding	283	26	257	0	36	242	4	1
Seizures	19	4	15	0	8	11	0	0
Precipitous labor	1,046	106	939	1	130	912	4	0
Prolonged labor	498	33	465	0	38	448	12	0
Dysfunctional labor	1,336	62	1,274	0	87	1,239	10	0
Breech malpresentation	2,566	678	1,888	0	759	1,804	3	0
Cephalopelvic disproportion	291	5	286	0	4	285	2	0
Cord prolapse	94	18	76	0	17	77	0	0
Anesthetic complications	37	2	35	0	3	34	0	0
Fetal distress	5,277	686	4,590	1	772	4,475	27	3
Other	2	0	2	0	0	2	0	0

* "Refused", "Yes, divorced", "Unknown"

**TABLE 1B-34
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2011**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Mother's race/ethnicity														
TOTAL	85,190	101	2,447	5,887	21,753	24,251	19,368	9,153	2,090	137	3			
White non-Hispanic	38,294	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69	0			
Hispanic or Latino	32,398	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30	0			
Black or African American	4,366	10	152	399	1,334	1,149	818	410	88	6	0			
American Indian or Alaska Native	5,830	14	293	680	1,924	1,454	899	461	91	4	0			
Asian	3,434	2	24	81	387	953	1,211	635	132	9	0			
Native Hawaiian or Pacific Islander	71	0	2	2	15	28	14	9	1	0	0			
Other race	88	0	4	6	19	27	21	10	1	0	0			
Unknown	709	1	11	34	154	171	160	100	56	19	3			
Payee for birth														
AHCCCS	45,148	85	2,039	4,925	15,363	11,447	7,129	3,329	781	47	3			
IHS	1,663	5	106	194	500	425	255	149	27	2	0			
Private insurance	35,362	5	215	625	5,252	11,498	11,218	5,279	1,196	74	0			
Self	2,635	6	73	111	534	774	692	359	75	11	0			
Unknown	382	0	14	32	104	107	74	37	11	3	0			
Mother's education														
<8	2,386	21	39	76	294	591	685	539	132	9	0			
8	1,523	46	152	118	394	366	260	142	43	2	0			
9-11	12,845	33	1,850	1,901	4,037	2,550	1,576	731	160	7	0			
12	26,096	0	368	3,055	9,540	6,966	4,071	1,673	399	24	0			
13-16	32,312	0	17	693	6,910	10,987	8,817	3,932	911	45	0			
17+	8,794	0	0	5	347	2,480	3,622	1,940	374	26	0			
Unknown	1,234	1	21	39	231	311	337	196	71	24	3			
Marital status														
Married	46,532	1	128	778	7,740	15,159	14,331	6,806	1,478	108	3			
Unmarried	37,780	100	2,317	5,095	13,799	8,831	4,810	2,230	572	26	0			
Other/Unknown*	878	0	2	14	214	261	227	117	40	3	0			
Weight gain														
None	1,814	2	51	112	465	517	404	205	55	3	0			
1-15 pounds	10,258	9	254	605	2,612	2,837	2,425	1,197	290	29	0			
16-20 pounds	10,435	20	298	703	2,713	2,861	2,306	1,199	316	19	0			
21-24 pounds	6,022	8	167	418	1,503	1,709	1,397	657	151	12	0			
25-30 pounds	19,072	20	544	1,293	4,855	5,409	4,356	2,128	445	22	0			
31+ pounds	36,553	40	1,100	2,672	9,347	10,641	8,232	3,667	805	46	3			
Unknown	1,036	2	33	84	258	277	248	100	28	6	0			
Substance use														
Drinker, nonsmoker	300	0	0	10	57	74	92	50	15	2	0			
Smoker, nondrinker	3,488	1	63	276	1,160	1,029	608	255	85	9	2			
Smoker and drinker	134	0	3	13	33	31	36	14	2	0	0			
Nonsmoker and nondrinker	81,268	100	2,381	5,588	20,503	23,117	18,631	8,834	1,988	124	2			
Length of gestation														
<37 weeks	7,913	5	239	521	1,906	2,089	1,821	1,027	275	28	2			
37-41 weeks	76,901	94	2,198	5,343	19,758	22,055	17,457	8,082	1,805	108	1			
42+ weeks	318	2	10	18	72	92	75	40	8	1	0			
Unknown	58	0	0	5	17	15	15	4	2	0	0			

**TABLE 1B-34 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2011**

	TOTAL	Mother's age group							Un- known			
		<15	15-17	18-19	20-24	25-29	30-34	35-39		40-44	45+	
Weight at birth												
<1,000 grams	496	1	16	36	130	141	102	59	10	1	0	
1,000-1,499	505	0	17	20	114	118	147	68	20	1	0	
1,500-2,499	4,948	3	192	405	1,308	1,190	1,043	603	181	22	1	
2,500-3,999	72,777	95	2,129	5,171	18,859	20,869	16,295	7,558	1,692	107	2	
4000+ grams	6,451	2	93	253	1,340	1,928	1,778	864	187	6	0	
Unknown	13	0	0	2	2	5	3	1	0	0	0	
Prenatal care												
No care	1,344	3	71	138	443	316	207	123	33	9	1	
1st trimester	69,609	61	1,563	4,166	16,824	20,508	16,809	7,830	1,749	97	2	
2nd trimester	11,207	29	614	1,268	3,516	2,706	1,880	937	234	23	0	
3rd trimester	2,620	8	190	287	865	597	391	216	59	7	0	
Unknown	410	0	9	28	105	124	81	47	15	1	0	
Prenatal visits												
No visits	1,344	3	71	138	443	316	207	123	33	9	1	
1-4 visits	2,888	12	169	309	961	709	437	229	55	7	0	
5-8 visits	11,864	30	562	1,195	3,578	2,994	2,159	1,087	246	13	0	
9-12 visits	39,889	38	1,095	2,793	10,236	11,358	9,197	4,192	929	49	2	
13+ visits	28,732	18	539	1,415	6,415	8,731	7,279	3,465	812	58	0	
Unknown	473	0	11	37	120	143	89	57	15	1	0	
Newborn intensive care												
Yes	4,635	4	136	312	1,197	1,153	1,038	617	159	17	2	
No	80,494	97	2,311	5,572	20,543	23,075	18,318	8,528	1,930	119	1	
Unknown	61	0	0	3	13	23	12	8	1	1	0	
Obstetric procedures												
Amniocentesis	598	0	12	37	139	158	139	70	40	3	0	
Electro. fetal monit	77,834	93	2,226	5,397	19,816	22,161	17,660	8,417	1,935	126	3	
Induction of labor	18,866	27	517	1,391	5,055	5,512	4,144	1,784	415	21	0	
Stimulation of labor	12,910	15	435	979	3,477	3,653	2,769	1,283	284	15	0	
Tocolysis	387	0	14	33	90	109	89	44	8	0	0	
Ultrasound	61,267	71	1,773	4,267	15,614	17,301	13,944	6,637	1,557	103	0	
Other	6,898	5	213	529	1,840	1,947	1,505	693	157	9	0	
Method of delivery												
Vaginal	60,471	90	2,049	4,757	16,423	17,449	12,952	5,543	1,147	61	0	
Vaginal after C-Section	896	0	4	15	164	267	254	155	34	3	0	
Primary C-Section	12,526	11	355	929	3,040	3,289	2,823	1,576	453	48	2	
Repeat C-Section	11,275	0	38	182	2,119	3,242	3,333	1,879	456	25	1	
Forceps	362	0	14	29	101	107	72	30	9	0	0	
Vacuum	2,338	2	110	213	611	693	420	225	59	5	0	
Births with medical risk factors												
Total	30,991	56	1,123	2,257	7,191	8,003	6,835	4,317	1,117	89	3	
Anemia	3,076	9	83	256	848	821	660	314	78	5	2	
Cardiac disease	200	0	5	9	45	43	59	30	9	0	0	
Lung disease	984	1	28	69	275	272	199	109	27	4	0	
Diabetes	3,950	0	25	88	546	1,005	1,197	833	231	25	0	

**TABLE 1B-34 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2011**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
Genital herpes	866	0	5	31	181	243	235	134	35	2	0	
Hydramnios/oligohydramnios	1,074	1	42	52	237	288	258	159	34	3	0	
Hemoglobinopathy	21	0	0	2	2	6	4	6	1	0	0	
Chronic hypertension	702	0	3	11	77	159	230	167	49	6	0	
Pregnancy associated hypertension	3,569	3	122	258	877	928	814	423	132	12	0	
Eclampsia	762	2	35	66	183	178	163	106	27	2	0	
Previous infant 4000+g	268	0	0	6	31	77	81	64	9	0	0	
Previous SGA infant	756	0	6	19	167	225	211	95	28	5	0	
Renal disease	91	0	0	4	21	27	26	10	3	0	0	
RH sensitization	134	0	3	3	27	42	43	13	3	0	0	
Uterine bleeding	267	0	3	12	60	71	67	42	12	0	0	
Incompetent cervix	159	0	0	2	38	42	49	24	4	0	0	
Other	22,431	52	975	1,819	5,277	5,579	4,594	3,209	857	66	3	
Total	7,496	9	272	569	2,070	1,985	1,624	755	199	13	0	
Abnormal conditions of the newborn												
Anemia	28	0	1	2	10	7	5	3	0	0	0	
Birth injury	47	0	1	1	16	17	5	6	1	0	0	
Fetal alcohol syndrome	2	0	0	0	1	1	0	0	0	0	0	
Membrane disease	247	0	8	20	79	66	56	17	1	0	0	
Meconium aspiration	139	0	6	8	43	33	34	13	2	0	0	
Assisted vent <30 min	649	0	13	41	155	180	159	79	20	2	0	
Assisted vent >30 min	373	1	8	24	94	77	102	49	18	0	0	
Newborn seizures	48	0	1	4	12	10	14	7	0	0	0	
Other	6,680	9	251	528	1,859	1,772	1,412	656	180	13	0	
Total	938	0	36	77	249	268	177	93	34	4	0	
Births with congenital anomalies												
Anencephalus	9	0	0	1	4	1	2	1	0	0	0	
Spina bifida/meningocele	12	0	1	1	3	3	1	2	1	0	0	
Hydrocephalus	7	0	1	1	2	1	1	0	1	0	0	
Microcephalus	3	0	0	0	1	0	0	1	1	0	0	
Other CNS anomaly	10	0	1	0	5	0	2	1	1	0	0	
Heart malformations	62	0	0	2	15	21	11	8	5	0	0	
Other respiratory/circulatory	109	0	4	10	33	23	22	13	4	0	0	
Rectal atresia/stenosis	5	0	0	0	0	3	2	0	0	0	0	
Fistula/esophageal atresia	5	0	0	0	2	2	1	0	0	0	0	
Omphalocele/gastroschisis	24	0	2	5	12	3	1	0	1	0	0	
Other gastrointestinal	19	0	1	2	8	3	3	2	0	0	0	
Malformed genitalia	12	0	0	0	4	3	3	1	1	0	0	
Renal agenesis	3	0	0	0	0	1	1	1	0	0	0	
Other urogenital	30	0	0	3	6	15	4	1	1	0	0	

**TABLE 1B-34 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2011**

	TOTAL	Mother's age group								Un- known	
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44		45+
Cleft lip/palate	52	0	3	4	15	17	7	5	1	0	0
Polydactyly/syndactyly/adactyly	18	0	1	2	2	5	6	2	0	0	0
Club foot	37	0	2	3	6	15	7	2	2	0	0
Diaphragmatic hernia	2	0	0	0	0	1	1	0	0	0	0
Other muscoskeletal	33	0	2	4	9	7	4	3	4	0	0
Down syndrome	39	0	0	1	7	6	6	8	9	2	0
Other chromosomal	25	0	0	4	2	8	5	2	4	0	0
Other	546	0	20	50	138	162	101	54	19	2	0
Total	16,094	13	503	1,134	4,087	4,419	3,610	1,836	447	42	3
Births with complications of labor											
Febrile	1,240	1	64	116	374	363	211	97	13	1	0
Meconium	3,923	4	140	289	1,027	1,103	863	418	71	6	2
Rupture of membrane	1,553	1	60	126	417	406	346	151	43	2	1
Abruption placenta	389	0	10	27	83	107	87	60	15	0	0
Placenta previa	301	0	2	6	45	73	79	64	30	2	0
Other bleeding	283	0	10	22	82	75	47	43	4	0	0
Seizures	19	0	1	5	6	1	2	3	1	0	0
Precipitous labor	1,046	0	25	58	257	303	243	131	25	4	0
Prolonged labor	498	0	16	52	120	141	102	56	11	0	0
Dysfunctional labor	1,336	3	45	113	392	349	264	132	36	2	0
Breech malpresentation	2,566	1	54	116	553	682	659	376	110	15	0
Cephalopelvic disproportion	291	1	13	32	83	75	59	21	7	0	0
Cord prolapse	94	0	1	8	26	27	24	5	3	0	0
Anesthetic complications	37	0	0	1	10	9	11	4	2	0	0
Fetal distress	5,277	4	148	367	1,345	1,452	1,208	590	148	15	0
Other	2	0	0	0	1	0	1	0	0	0	0

* "Refused", "Yes, divorced", "Unknown"

**TABLE 1B-35
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND
CHILD'S GENDER, ARIZONA, 2011**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian			Native Hawaiian or Pacific Islander			Unspecified or other or unknown race		
	Total	Male	Female	Total*	Male	Female	Total*	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total*	85,190	43,619	41,570	38,294	19,586	18,708	32,398	16,644	15,754	4,366	2,204	2,162	5,830	2,958	2,872	3,434	1,797	1,637	71	38	33	797	393	404
Births with congenital anomalies	938	553	385	409	248	161	364	218	146	45	21	24	84	52	32	27	10	17	1	1	0	8	3	5
Anencephalus	9	3	6	2	1	1	4	1	3	2	0	2	0	0	0	1	1	0	0	0	0	0	0	0
Spina bifida/meningocele	12	5	7	6	3	3	4	2	2	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Hydrocephalus	7	4	3	3	2	1	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Microcephalus	3	2	1	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Other CNS anomaly	10	5	5	4	1	3	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart malformations	62	34	28	26	15	11	24	15	9	5	1	4	5	1	4	1	1	0	0	0	0	0	1	0
Other respiratory/circulatory anomalies	109	61	48	30	16	14	60	35	25	10	5	5	7	4	3	1	0	1	0	0	0	1	1	0
Rectal atresia/stenosis	5	3	2	2	2	0	1	0	1	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0
Tracheo-esophageal fistula/esophageal atresia	5	4	1	3	3	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Omphalocele/gastroschisis	24	15	9	5	3	2	16	10	6	0	0	0	2	2	0	1	0	1	0	0	0	0	0	0
Other gastrointestinal anomalies	19	13	6	8	5	3	7	5	2	2	2	0	1	0	1	1	1	0	0	0	0	0	0	0
Malformed genitalia	12	8	4	5	3	2	5	4	1	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0
Renal agenesis	3	1	2	1	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other urogenital anomalies	30	23	7	13	13	0	11	6	5	1	0	1	2	2	0	3	2	1	0	0	0	0	0	0
Cleft lip/palate	52	30	22	22	13	9	17	10	7	1	1	0	10	6	4	2	0	2	0	0	0	0	0	0
Polydactyly/syndactyly/adactyly	18	9	9	8	4	4	3	2	1	1	0	1	5	3	2	1	0	1	0	0	0	0	0	0
Club foot	37	26	11	17	12	5	13	10	3	2	1	1	2	2	0	2	1	1	0	0	0	1	0	1
Diaphragmatic hernia	2	1	1	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other musculoskeletal/integumental anomalies	33	15	18	15	5	10	12	6	6	2	2	0	3	2	1	1	0	1	0	0	0	0	0	0
Down syndrome	39	19	20	14	9	5	17	7	10	1	1	0	5	1	4	2	1	1	0	0	0	0	0	0
Other chromosomal anomalies	25	7	18	12	4	8	10	3	7	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0
Other congenital anomalies	546	325	221	249	152	97	202	124	78	18	8	10	52	33	19	17	5	12	1	1	0	7	2	5
Ratio per 100 births	1.1	1.3	0.9	1.1	1.3	0.9	1.1	1.3	0.9	1.0	1.0	1.1	1.4	1.8	1.1	0.8	0.6	1.0	1.4	2.6	0.0	1.0	0.8	1.2

* Includes unspecified other and unknown race.



1C.

FETAL, PERINATAL, AND MATERNAL DEATHS

In Arizona, reportable fetal deaths are those after 20 completed weeks of gestation or, if the gestational period is unknown, the fetal death certificate should be filed if the fetus weighs more than 350 grams (*ARS 36-329; Arizona Administrative Code, R9-19-302*). In addition to spontaneous stillbirths, any induced termination of pregnancy at 20 or more weeks of gestation (or, if the gestation period is unknown, when the weight of the product of human conception is more than 350 grams) also requires the filing of a fetal death certificate.

The National Center for Health Statistics (NCHS) in *The Revision of Model State Vital Statistics Act and Regulations** recommended adding clarifiers to the original definition promulgated by the World Health Organization in 1950. In this document, NCHS recommends the following definition: “fetal death” means death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an

* <http://www.cdc.gov/nchs/data/misc/mvsact92b.pdf>

induced termination of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.”

The Revision of Model State Vital Statistics Act also recommended that all induced terminations of pregnancy should be excluded from the fetal death file, except when the fetus was known to be dead before the procedure and when the induction was performed for the sole purpose of removing an already-dead fetus. The term “induced termination” implies a pregnancy in progress, not one in which fetal death has already occurred.

The implementation of a new certificate of fetal death in Arizona in the future is likely to improve the integrity of the fetal death database; excluding those induced terminations where the fetus died during the induction procedure (these will continue to be included in the abortion database but no longer double-counted among both abortions and fetal deaths). Until then, the fetal death data reported in the *Arizona Health Status and Vital Statistics* annual report will be focused on a subset of all records collected, that is **reportable spontaneous fetal losses**: including spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the death of fetuses of at least 350 grams in weight), and excluding induced terminations of pregnancy performed with the intention other than to remove a dead fetus.

It is only beginning with the year 2000 that information about the gestational age of a fetus became available in the electronic database of fetal deaths in Arizona. For the first time the users of the health statistical information about fetal deaths realized that a rather surprising number of records in the fetal death database also include some stillbirths prior to 20 weeks and of any weight, i.e., events not required to be reported in the State (**Table 1C-3**). In this report, those early stillbirths are excluded from the count of reportable fetal losses.

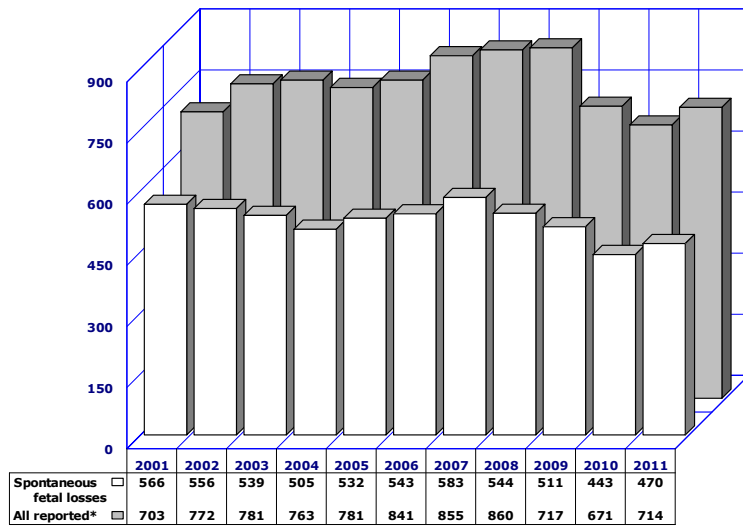
Beginning in 2003, the data tables in Section 1C and 5C have been revised to include only reportable spontaneous fetal losses.

The revision of the U.S. Standard, as well as Arizona Report of Fetal Death certification format introduces substantial changes in how cause of fetal death is collected. The new format has two parts: A) Initiating cause/condition and B) Other significant causes or conditions. The instructions direct the physician to report an initiating condition in part A and all remaining causes in part B. Compared with the previous U.S. Standard Report of Fetal Death (1989 revision), the new format eliminates the reported sequence of conditions resulting in death and assumes that physicians will be able to provide an “initiating cause/condition,” which is equivalent to the “reported underlying cause of death.” A list of checkboxes and “Specify” lines replace the previous open-ended format. The list is neither inclusive nor as detailed as possible. The “Specify” lines allow physicians to report other causes or provide more detail.

A comparison of the current with the proposed Arizona Certificate of Fetal Death is available online at <http://www.azdhs.gov/plan/cert/pdf/fetal.pdf>.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-1
Trends in Fetal Deaths, Arizona, 2001-2011

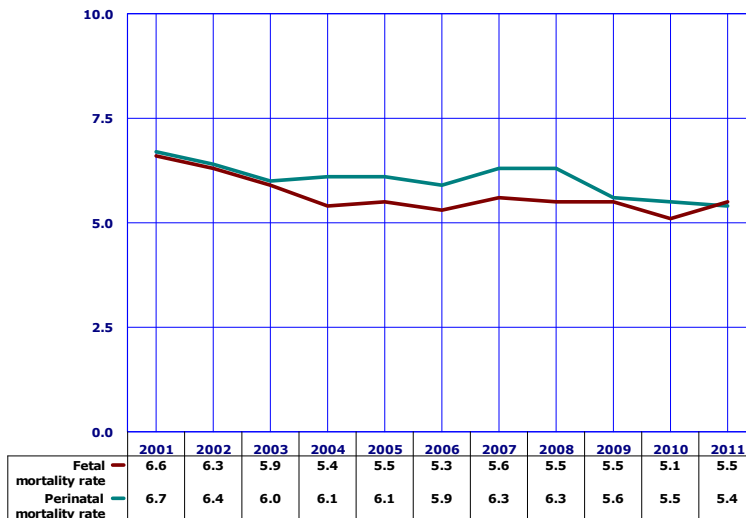


The practice of including spontaneous or induced terminations of pregnancy prior to 20 weeks of gestation and/or of any weight had begun in 1997 effecting a rather substantial increase in the number of annually reported fetal deaths in Arizona from 483 in 1996 to 637 in 1997.

The number of all reported fetal deaths in Arizona (including late term abortions) in 2011 was 714 compared to 860 in 2008 (**Figure 1C-1, Table 1C-3**). The annual number of reportable spontaneous fetal losses decreased by 19.4 percent from 583 in 2007 to 470 in 2011 (**Figure 1C-1, Table 1C-3**).

Includes spontaneous and induced termination of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight).

Figure 1C-2
Fetal* and Perinatal Mortality Rates, Arizona, 2001-2011**



Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age or of an infant less than 7 days old. The perinatal death rate per 1,000 live births and fetal deaths decreased from a recent high of 6.7 in 2001 to 5.4 in 2011 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 249 or 53.5 percent of the 465 perinatal deaths in 2011 (**Figure 1C-2, Table 1C-3**).

The fetal mortality of 5.5 fetal deaths at 20 or more weeks of gestation per 1,000 live births 2011 was similar to rates reported from 2004 to 2009, while the actual number of reportable spontaneous fetal losses was lower than the numbers reported from 2001 to 2009.

Rate is the number of fetal deaths per 1,000 live births and fetal deaths.
**Infant deaths of less than 7 days and fetal deaths with a period of gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-3
Percent of Death from Maternal Causes during 2001-2011 by Mother's Age Group, Arizona,

In 2011, five women giving birth were reported to have died from maternal causes (**Table 1C-1**). The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 81 maternal deaths from 2001 to 2011 women age 25-34 had the highest proportional contribution to maternal mortality (40.7 percent), followed by women age 35 and older (34.6 percent), and women age 25 and younger (24.7 percent; **Figure 1C-3**).

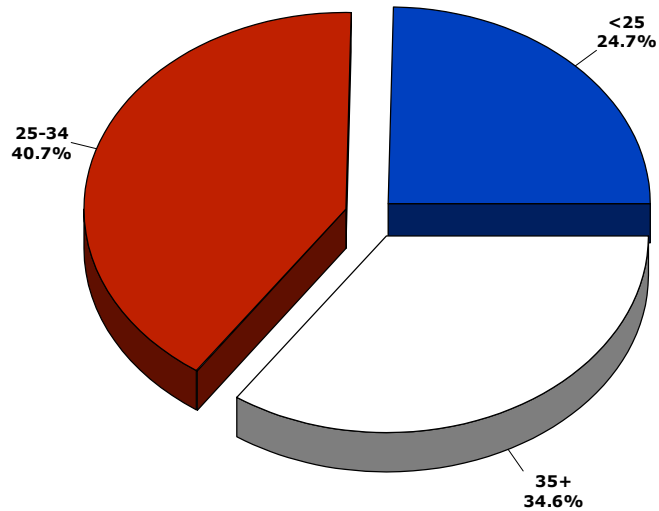
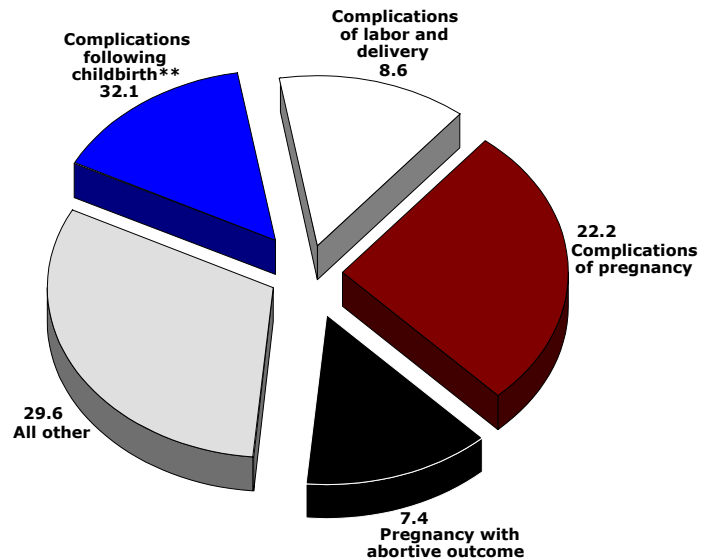


Figure 1C-4
Causes of Maternal Mortality*, Arizona, 2001-2011

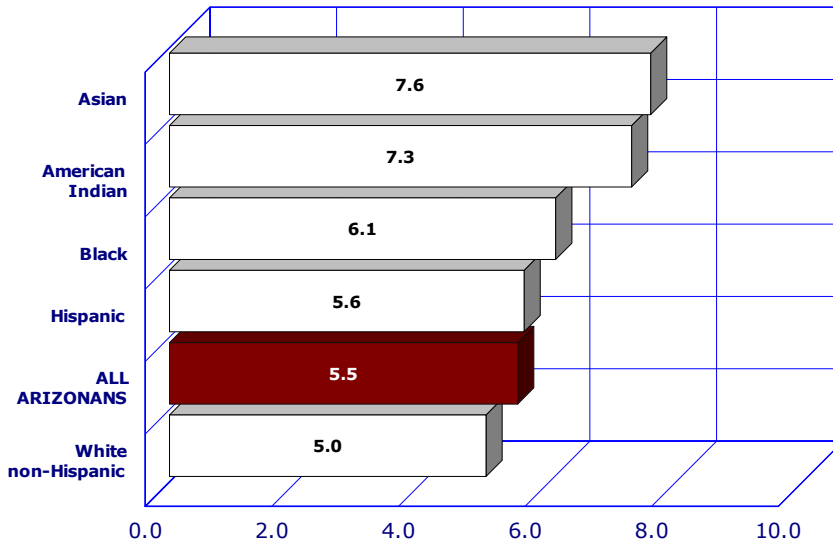
In the eleven-year period from 2001 to 2011, the major causes of maternal deaths in the State have included complications following childbirth (i.e. complications of the puerperium; 32.1 percent), complications mainly related to pregnancy (22.2 percent), complications occurring in the course of labor and delivery (8.6 percent), and pregnancy with abortive outcome (7.4 percent). All other possible causes of maternal death accounted for 29.6 percent of the maternal deaths from 2001 to 2011 (**Figure 1C-4, Table 1C-2**).



Based on the total number of maternal deaths from 2001 to 2011.
 ** Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

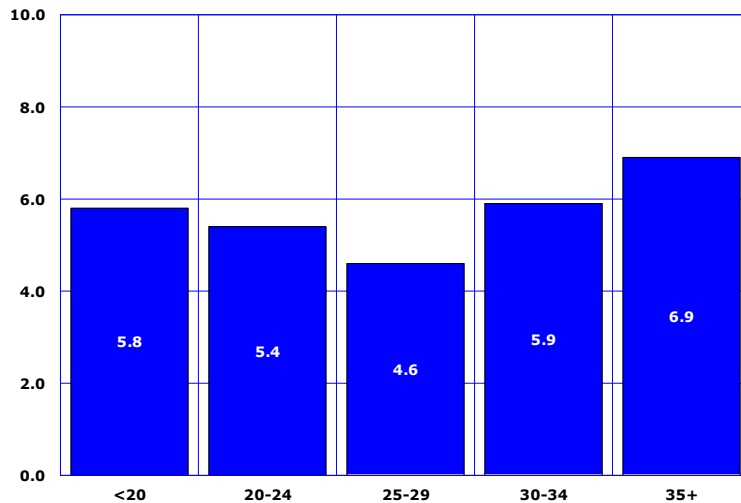
Figure 1C-5
Fetal Mortality Rates* by Race/Ethnicity, Arizona, 2011



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality for Asian or Pacific Islander women was 7.6/1,000, the highest rate among the racial/ethnic groups. This contrasts with 2010, when the fetal mortality rate of Asian women was 3.2/1,000 births, which was the lowest fetal mortality rate of all races/ethnicities in 2010. The 2011 fetal mortality rate was 7.3 for American Indian women, 6.1 for Black or African American women, 5.6 for Hispanic or Latino women, and 5.0 for White non-Hispanic women.

Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

Figure 1C-6
Fetal Mortality Rates* by Mother's Age Group, Arizona, 2011



Fetal mortality rates also vary by maternal age (**Figure 1C-6**). In 2011, fetal mortality rates were lowest for women aged 25-29 years and highest for those aged 35 years and older. The fetal mortality rate for mothers age 35 and older decreased by 20.7 percent from 2010.

Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**TABLE 1C-1
MATERNAL DEATHS¹ BY AGE GROUP AND YEAR, ARIZONA, 2001-2011**

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2001	8	0	2	2	3	0	0	0	1
2002	6	0	0	1	2	1	2	0	0
2003	5	0	0	0	1	1	3	0	0
2004	2	0	0	1	1	0	0	0	0
2005	9	0	0	3	3	0	2	1	0
2006	9	0	1	2	3	1	1	1	0
2007	8	0	2	0	0	2	3	1	0
2008	10	0	0	2	4	2	2	0	0
2009	7	0	0	0	2	3	2	0	0
2010	12	0	1	2	1	2	3	2	1
2011	5	0	0	1	1	0	2	1	0

¹ Maternal deaths are those assigned to complications of pregnancy, childbirth and puerperium, category numbers 630-676 of the Ninth Revision, *International Classification of Diseases*. Beginning in 2000, these are category codes 000-099 according to the Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-2
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2001-2011**

Cause of death (ICD-9/ICD-10 codes)	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PREGNANCY WITH ABORTIVE OUTCOME (630-636/O00-O07)	1	0	0	0	1	2	1	1	0	0	0
Ectopic pregnancy (633/O00)	1	0	0	0	1	1	1	1	0	0	0
COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648/O10-O16)	1	1	1	0	0	0	1	5	3	5	1
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (660-669/O60-O75)	1	1	0	1	0	2	0	1	1	0	0
COMPLICATIONS OF THE PUERPERIUM* (670-676/O85-O92)	2	2	2	0	4	4	2	2	3	4	1
ALL OTHER	3	2	2	1	4	1	4	1	0	3	3
TOTAL	8	6	5	2	9	9	8	10	7	12	5

* Complications following childbirth.

Note: In parentheses are category codes from the Ninth Revision/Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-3
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
NUMBER OF ALL REPORTED FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight). Excludes fetal deaths occurring in Arizona to out-of-State residents.	703	772	781	763	781	841	855	860	717	671	714
NUMBER OF REPORTABLE FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight)	605	639	628	581	597	690	729	724	621	581	619
NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), exclude induced terminations of pregnancy	566	556	539	505	532	543	583	544	511	443	470
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES¹	6.6	6.3	5.9	5.4	5.5	5.3	5.6	5.5	5.5	5.1	5.5
NUMBER OF PERINATAL DEATHS:	570	562	550	590	588	599	649	632	524	483	465
Spontaneous fetal losses of 28 or more weeks of gestation	274	278	252	271	266	259	290	293	243	214	216
Infant deaths of less than 7 days	296	284	298	319	322	340	359	339	281	269	249
PERINATAL DEATH RATE²	6.7	6.4	6.0	6.1	6.1	5.9	6.3	6.3	5.6	5.5	5.4

¹ Per 1,000 live births + reportable spontaneous fetal losses of 20 or more weeks of gestation.

² Per 1,000 live births + spontaneous fetal losses of 28 or more weeks of gestation

**TABLE 1C-4
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS¹ FETAL LOSSES BY YEAR, ARIZONA, 2001-2011**

Characteristic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total reportable spontaneous fetal losses	566	556	539	505	532	543	583	544	511	443	470
Gender											
Male	275	299	296	231	262	286	300	295	262	229	218
Female	267	253	240	270	268	252	277	246	244	208	245
Unknown	24	4	2	4	1	5	5	3	5	6	7
Mother's race/ethnicity											
White non-Hispanic	234	212	199	210	208	210	215	198	197	156	192
Hispanic or Latino	228	256	246	214	232	244	267	234	204	198	181
Black or African American	33	35	41	30	33	39	44	44	52	39	27
American Indian or Alaska Native	53	37	41	31	45	38	39	47	46	30	43
Asian or Pacific Islander	14	12	8	17	11	10	17	19	11	17	27
Unknown	4	4	4	3	3	2	1	2	1	3	0
Mother's age group											
<15	6	2	1	1	0	3	3	2	0	1	0
15-17	28	24	31	25	29	31	38	22	26	18	14
18-19	51	40	55	50	44	49	46	49	40	33	35
20-24	125	146	134	130	141	117	152	132	111	104	117
25-29	137	129	140	106	125	138	144	141	126	114	111
30-34	115	111	93	105	112	98	99	113	105	74	114
35-39	71	69	62	67	58	73	81	63	76	75	56
40-44	20	27	17	17	17	26	15	18	24	20	22
45+	1	4	1	1	2	5	3	2	2	3	1
Unknown	12	4	5	3	4	3	2	2	1	1	0
Gestational age²											
20-27 weeks	290	277	285	254	263	284	292	250	264	227	255
28+ weeks	274	278	252	249	266	259	290	293	243	214	215
Unknown	2	1	2	2	3	0	1	1	4	2	0
Weight in grams											
<350 grams	74	98	90	83	95	101	96	63	110	105	96
350-499	94	78	95	83	79	106	83	54	69	66	80
500-2,500	214	221	243	219	225	223	264	253	219	173	193
2,501-3,999	101	115	86	84	102	88	108	103	89	74	80
4,000+	16	15	12	21	13	13	19	9	13	20	11
Unknown	67	29	13	15	18	12	13	62	11	5	10

¹ Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), exclude induced terminations of pregnancy.

² For statistical purposes, fetal deaths are classified according to gestational age. A death that occurs at 20 or more weeks of gestation constitutes a fetal death, and after 28 weeks it is considered a late fetal death.



1D.

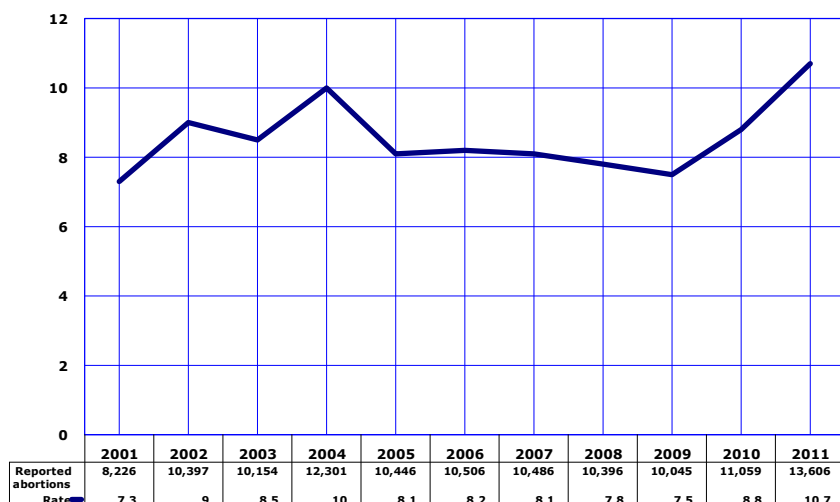
INDUCED TERMINATIONS OF PREGNANCY

In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient treatment centers, and physicians' offices throughout the State.

In 2010, SB1304 was passed by the legislature that statutorily required the reporting of abortions and treatment of complications associated with abortions. In addition, the office of the Courts were required to report the number of petitions received by the court for authorization to perform abortions on unemancipated minors as prescribed in Arizona Revised Statutes §36-2152. The collection of this information was begun July 29, 2010. The 2011 abortion report is available for download at <http://www.azdhs.gov/diro/reports/pdf/2011-arizona-abortion-report.pdf>.

1D. INDUCED TERMINATIONS OF PREGNANCY

Figure 1D-1
Number of Reported Abortions and Abortion Rates* by Year,
Arizona Residents, 2001-2011



In calendar year 2011, the Arizona Department of Health Services received 13,606 reports of abortions obtained by Arizona residents, 2,547 more than the 11,059 reported in 2010 (**Figure 1-D1, Table 1D-1**).

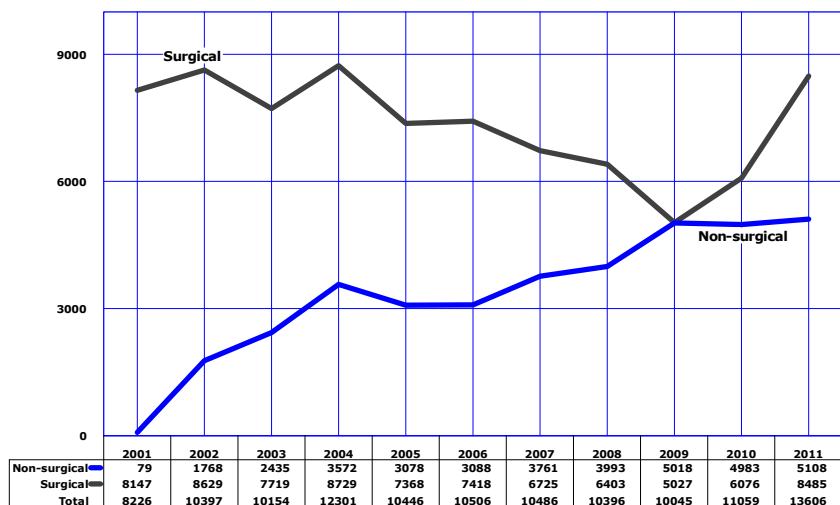
There were 14,358 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for the remaining 42 abortion procedures.

Six out of ten (61.6 percent) resident women who reported having an abortion in 2011 had the procedure for the first time. Eighty-nine percent of all reported abortions occurred before 13 weeks of pregnancy. Few reported abortions occurred after 15 weeks of gestation: 4.8 percent at 16-20 weeks and 1.0 percent at ≥ 21 weeks (percentages based on data in **Table 1D-3**).

Eighty-one percent of women who obtained abortions were known to be unmarried (**Table 5D-5**).

Number of abortions per 1,000 females 15-44 years old. The sharp increase in number of reported abortions and rates was due to enhanced surveillance as noted in the abortion report.

Figure 1D-2
Trends in the Number of Surgical and Non-Surgical Abortions by Year,
Arizona Residents, 2001-2011



The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased from 7.5 in 2009 to 10.7 in 2011 (**Table 1D-1**). The sharp increase in number of reported abortions and rates, especially those attributable to surgical means, was due to enhanced surveillance as noted in the abortion report.

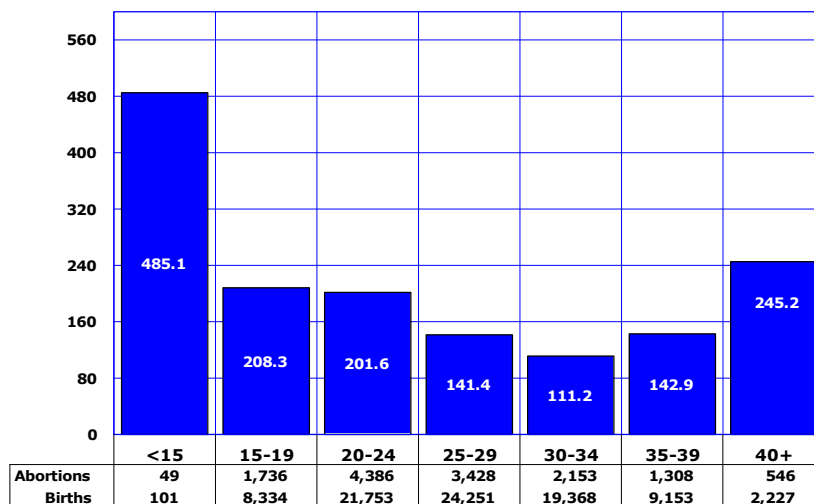
It is evident that the number of non-surgical abortions increased until 2009 and then remained stable in 2010 and 2011. In 2000, almost all procedures for abortions were comprised of surgical procedures. However, in 2011, surgical procedures accounted for 62 percent of all abortion procedures.

Similarly, in 2001, non-surgical procedures comprised one percent of all abortions, and in 2011 comprised 37.5 percent. Between the 2001-2011 time-period, there was a 4.1 percent increase in surgical procedures and a 6365.8 percent increase in non-surgical procedures.

In 13 cases, type of procedure was unknown. The sharp increase in number of reported abortions and rates was due to enhanced surveillance as noted in the abortion report.

1D. INDUCED TERMINATIONS OF PREGNANCY

Figure 1D-3
Abortion Ratios* by Age Group, Arizona Residents, 2011

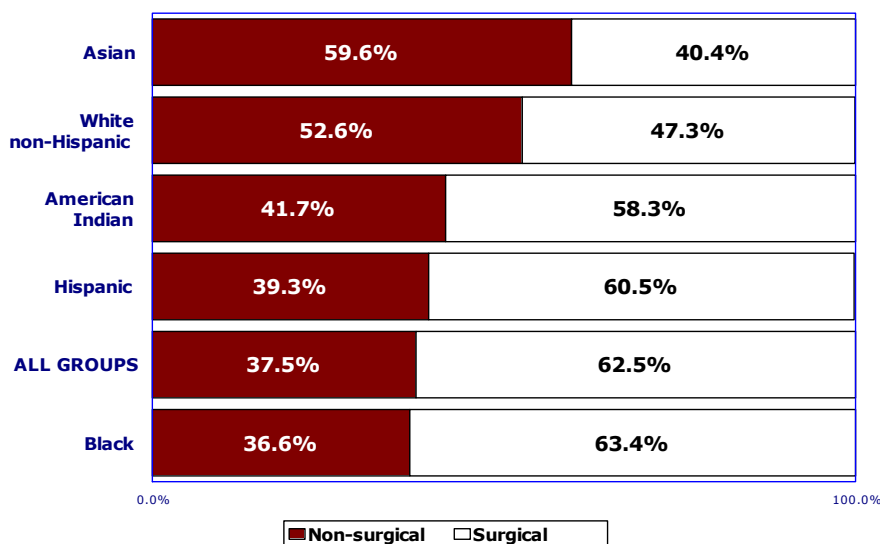


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age of women at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e. among women under 15 and those aged 40 years or older (**Figure 1D-3**).

A comparison of age-specific abortion ratios by race/ethnicity is provided in **Table 1D-5**.

Number of reported abortions per 1,000 live births in specified group.

Figure 1D-4
Proportional Contribution of Non-Surgical and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2011



In 2011, non-surgical (also called “medical”) abortions made up 37.5 percent of all procedures reported in Arizona. Among Asians, White non-Hispanics, American Indians, and Hispanics, the proportion of non-surgical abortions exceeded the average for all groups (**Figure 1D-4**). The ratios of non-surgical abortions among Black or African American women were the lowest among race/ethnic groups.

Non-surgical: Mifepristone, Methotrexate, RU486, etc.; Reporting changes related to race/ethnicity makes comparisons with previous years difficult.

**TABLE 1D-1
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2001-2011**

Characteristics	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ABORTIONS PERFORMED IN ARIZONA	8,302	10,677	10,316	12,690	10,723	10,836	10,721	10,660	10,271	11,438	14,401
RESIDENT ABORTIONS	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045	11,059	13,606
RACE/ETHNICITY											
White non-Hispanic	3,917	4,909	4,887	5,276	4,431	5,106	5,202	4,737	4,759	5,241	2,385
Hispanic or Latino	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303	3,422	4,274
Black or African American	450	556	495	723	585	581	675	744	736	476	145
American Indian	220	285	357	341	353	342	310	297	300	218	48
Asian or other Pacific Islander	207	273	272	444	379	391	454	412	390	254	47
Unknown	695	808	702	1,032	1,586	926	126	1,082	557	1,448	2,265
Multiple race*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,442
AGE											
19 years and under	1,528	1,995	1,867	2,220	1,892	1,919	1,979	1,813	1,519	1,512	1,785
20-29 years	4,313	5,406	5,531	6,800	5,684	5,770	5,839	5,854	5,753	6,278	7,814
30 years and over	1,926	2,475	2,431	2,939	2,436	2,702	2,652	2,403	2,532	3,113	4,007
Not stated	459	521	325	342	434	115	16	326	241	156	NA
YEARS OF EDUCATION											
Elementary/secondary (1-12)	2,604	3,029	2,444	3,321	1,435	6,226	9,293	6,964	5,244	4,316	4,757
College (1-4 or 5+)	1,777	2,156	1,889	2,726	1,330	1,415	1,193	2,565	3,372	3,199	2,252
Not stated or unknown	3,845	5,212	5,821	6,254	7,681	2,865	0	867	1,429	3,544	6,597
WEEKS OF GESTATION											
12 weeks or under	6,078	8,471	8,093	10,678	8,558	9,470	9,498	9,175	9,238	9,967	12,156
13 weeks or over	996	1,147	998	1,224	1,068	948	974	916	597	948	1,427
Not stated or unknown	1,152	779	1,063	399	820	88	14	305	210	144	23
FACILITY											
Clinic	7,334	9,485	9,158	12,281	10,442	10,560	10,486	10,391	9,362	9,689	14,358
Hospital	0	1	1	0	0	0	0	0	0	16	42
Other	892	911	995	20	4	0	0	5	683	**1,354	0

**TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2001-2011**

Characteristics	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PREVIOUS LIVE BIRTHS											
None	3,490	4,508	4,446	5,215	4,593	4,798	4,517	4,441	4,377	4,867	5,820
One or more	4,736	5,889	5,708	7,086	5,853	5,708	5,969	5,955	5,668	6,178	7,772
PREVIOUS INDUCED TERMINATIONS OF PREGNANCY											
None	5,271	6,561	6,606	7,778	6,453	6,390	6,453	6,338	5,874	6,746	8,382
One or more	2,955	3,846	3,548	4,523	3,993	4,116	4,033	4,058	4,171	4,282	5,183
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	7,218	9,494	8,780	10,454	8,916	8,864	8,807	8,756	8,424	9,300	11,257
One or more	1,008	903	1,374	1,847	1,530	1,642	1,679	1,640	1,621	1,643	2,301
NONSURGICAL ABORTIONS											
	79	1,768	2,435	3,572	3,078	3,088	3,761	3,993	5,018	4,983	5,108
ABORTION RATIO¹	96.5	119.0	111.9	131.7	109.0	103.0	102.1	104.8	108.5	127.0	159.7
ABORTION RATE²	7.3	9.0	8.5	10.0	8.1	8.2	8.1	7.8	7.5	8.8	10.7

¹Number of abortions per 1,000 women giving birth.

²Number of abortions per 1,000 women of childbearing age (15 - 44 years old).

*Multiple race data was not available for previous years (2001-2010).

** Outpatient Surgical Centers in 2010.

**TABLE 1D-2
NUMBER OF LIVE BIRTHS, ABORTIONS, AND RATIOS¹ OF INDUCED TERMINATIONS OF PREGNANCY
BY RACE/ETHNICITY AND YEAR, ARIZONA, 2001-2011**

Race/ethnicity	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
TOTAL, ALL GROUPS²											
Births	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190
Abortions	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045	11,059	13,606
Abortion ratio	96.5	119.0	111.9	131.7	109.0	103.0	102.1	104.8	108.5	127.0	159.7
WHITE NON-HISPANIC											
Births	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294
Abortions	3,917	4,909	4,887	5,276	4,431	5,106	5,202	4,737	4,579	5,241	2,385
Abortion ratio	100.6	126.5	125.8	134.3	111.7	118.7	123.2	113.0	115.1	135.2	62.3
HISPANIC OR LATINO											
Births	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398
Abortions	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303	3,422	4,274
Abortion ratio	78.0	98.8	88.0	109.9	73.8	70.4	81.3	73.3	86.1	99.7	131.9
BLACK OR AFRICAN AMERICAN											
Births	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366
Abortions	450	556	495	723	585	581	675	744	736	476	145
Abortion ratio	164.5	202.0	163.8	224.8	169.6	150.4	162.1	173.0	168.1	110.0	33.2
AMERICAN INDIAN OR ALASKA NATIVE											
Births	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830
Abortions	220	285	357	341	353	342	310	297	300	218	48
Abortion ratio	41.2	51.4	60.7	55.7	56.1	53.7	48.4	46.7	48.6	37.5	8.2
ASIAN OR OTHER PACIFIC ISLANDER											
Births	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505
Abortions	207	273	272	444	379	391	454	412	390	254	47
Abortion ratio	98.4	119.7	107.8	169.9	135.1	124.7	133.1	120.3	114.8	77.2	13.4

¹Number of resident abortions performed in Arizona per 1,000 resident live births in specified race/ethnic group.

²Total for all groups may include records with unknown or unspecified race/ethnic group.

**TABLE 1D-3
ABORTIONS BY WEEK OF GESTATION AND AGE GROUP, ARIZONA, 2011**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	13,606	49	478	1,258	4,386	3,428	2,153	1,308	512	34
6 weeks or less	4,550	11	102	362	1,370	1,191	794	497	208	15
7	2,697	4	74	215	931	691	416	268	93	5
8	1,883	7	71	179	596	500	279	178	68	5
9	1,147	1	53	113	360	292	183	95	48	2
10	759	8	37	93	272	154	105	65	20	5
11	671	5	26	68	256	152	96	49	19	0
12	449	2	27	66	152	97	57	35	13	0
13	372	1	25	43	111	89	61	32	10	0
14	220	0	12	25	82	58	20	17	6	0
15	188	2	9	15	57	43	28	24	9	1
16	146	3	7	17	51	32	25	9	2	0
17	125	2	9	9	28	33	24	11	9	0
18	93	0	13	11	23	22	12	10	2	0
19	95	0	3	14	27	33	13	4	1	0
20	47	1	1	9	13	9	10	4	0	0
21+	141	2	7	17	51	27	26	7	3	1
Unknown	23	0	2	2	6	5	4	3	1	0

**TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2011**

Week of gestation	Total	Race/ethnicity						Multiple race	Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander			
Total	13,606	2,385	4,274	145	48	47	4,442	2,265	
6 weeks or less	4,550	911	1,315	40	13	20	1,483	768	
7	2,697	510	857	29	10	11	839	441	
8	1,883	348	593	17	5	6	602	312	
9	1,147	171	355	14	10	4	400	193	
10	759	104	256	11	2	1	261	124	
11	671	91	230	6	1	1	234	108	
12	449	68	157	7	1	1	169	46	
13	372	36	131	4	1	1	123	76	
14	220	24	85	3	0	0	67	41	
15	188	17	60	0	3	0	65	43	
16	146	22	51	2	0	0	40	31	
17	125	25	46	2	0	2	34	16	
18	93	15	32	2	1	0	29	14	
19	95	11	28	1	0	0	32	23	
20	47	8	19	2	0	0	13	5	
21+	141	21	48	4	1	0	45	22	
Unknown	23	3	11	1	0	0	6	2	

**TABLE 1D-5
NUMBER OF LIVE BIRTHS, ABORTIONS, AND RATIOS OF INDUCED TERMINATIONS OF PREGNANCY BY AGE GROUP
AND RACE/ETHNICITY, ARIZONA, 2011**

	All ages*	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
White non Hispanic	Births	13	494	1,582	8,234	12,046	10,225	4,572	1,059	69
	Abortions	10	80	199	758	621	362	222	124	9
	Abortion ratio**	769.2	161.9	125.8	92.1	51.6	35.4	48.6	117.1	130.4
Hispanic or Latino	Births	61	1,467	3,103	9,686	8,413	6,020	2,956	662	30
	Abortions	17	179	442	1,454	1,044	654	375	101	8
	Abortion ratio	131.9	122.0	142.4	150.1	124.1	108.6	126.9	152.6	266.7
Black or African American	Births	10	152	399	1,334	1,149	818	410	88	6
	Abortions	0	4	13	57	30	25	13	3	0
	Abortion ratio	0.0	26.3	32.6	42.7	26.1	30.6	31.7	34.1	0.0
American Indian or Alaska Native	Births	14	293	680	1,924	1,464	899	461	91	4
	Abortions	0	2	3	13	12	11	6	1	0
	Abortion ratio	0.0	6.8	4.4	6.8	8.2	12.2	13.0	11.0	0.0
Asian or other Pacific Islander	Births	2	26	83	402	981	1,225	644	133	9
	Abortions	1	0	4	12	8	11	4	7	0
	Abortion ratio	13.4	500.0	48.2	29.9	8.2	9.0	6.2	52.6	0.0

* Includes records with unknown age.
 **The number of abortions per 1,000 live births. The abortion ratio is calculated if at least 10 (ten) births are recorded in specified group.
 Note: Records with unknown race/ethnicity are not shown above.